

# Product Datasheet

## Recombinant Human 15-Lipoxygenase 1 GST (N-Term) Protein

**H00000246-P01-10ug**

Unit Size: 10 ug

Store at -80C. Avoid freeze-thaw cycles.

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### Publications: 3

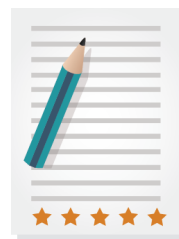
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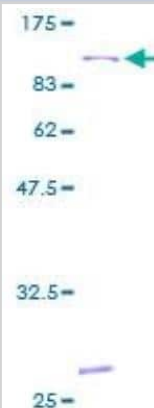
**H00000246-P01-10ug****Recombinant Human 15-Lipoxygenase 1 GST (N-Term) Protein**

| <b>Product Information</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unit Size</b>                   | 10 ug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Concentration</b>               | Please see the vial label for concentration. If unlisted please contact technical services.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>                     | Store at -80C. Avoid freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Preservative</b>                | No Preservative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>                      | >80% by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Buffer</b>                      | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Target Molecular Weight</b>     | 98.56 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Product Description</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>                 | <p>A recombinant protein with GST tag at N-terminal corresponding to the amino acids 1-662 of Human ALOX15</p> <p><b>Source:</b> <i>Wheat Germ (in vitro)</i></p> <p><b>Amino Acid Sequence:</b><br/> MGLYRIRVSTGASLYAGSNNQVQLWLVGQHGEAALGKRLWPARGKETELKVE<br/> VPEYLGPLL FVKLRKRHLLKDDAWFCNWISVQGPAGDEVRFPCYRWVEGNG<br/> VLSLPEGTGRTVGEDPQGLFQKHREEELEERRKLYRWGNWKDGLILNMAGAK<br/> LYDLPVDERFLEDKRVD FEVSLAKGLADLAIKDSLNVLT CWKDLDDFNRI FWCG<br/> QSKLAERVRDSWKEDALFGYQFLNGANPVVLRSAHLPARLVFPPGMEELQA<br/> QLEKELEGGTLFEADFSLLDGIKANVILCSQQHLAAPLVMLKLQPDGKLLPMVIQ<br/> LQLPRTGSPPPPLFLPTDPPMAWLLAKCWVRSSDFQLHELQSHLLRGHLMAE<br/> VIVVATMRCLPSIHPIFKLIIPHLRYTLEINVRARTGLVSDMGIFDQIMSTGGGGH<br/> VQLLKQAGAFITYSSFCPPDDLADRGLLGVKSSFYPQDALRLWEIIRYVEGIV<br/> SLHYKTDVAVKDDPELQ TWCREITEIGLQGAQDRGFPVSLQARDQVCHFVTMC<br/> IFTCTGQHASVHLGQLDWYSWVPNAPCTMRLPPPTTKDATLETVMATLPNFHQ<br/> ASLQMSITWQLGRRQPMVAVGQHEEEYFSGPEPKAVLKKFREELAALDKEIEI<br/> RNAKLDMPYEYLRPSVVENSVAI</p> |
| <b>Gene ID</b>                     | 246                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Gene Symbol</b>                 | ALOX15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>                     | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Preparation Method</b>          | in vitro wheat germ expression system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Details of Functionality</b>    | This protein was produced in an in vitro wheat germ expression system that should preserve correct conformational folding that is necessary for biological function. While it is possible that this protein could display some level of activity, the functionality of this protein has not been explicitly measured or validated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Notes</b>                       | This product is produced by and distributed for Abnova, a company based in Taiwan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Product Application Details</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Applications</b>                | Western Blot, ELISA, In vitro assay, Protein Array, Immunoaffinity Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Recommended Dilutions</b>       | Western Blot, ELISA, In vitro assay, Protein Array, Immunoaffinity Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Application Notes</b>           | Functional assay and in vitro assay reported in scientific literature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



## Images

SDS-Page: Recombinant Human 15-Lipoxygenase 1 Protein  
[H00000246-P01] - 12.5% SDS-PAGE Stained with Coomassie Blue.



## Publications

Pistorius K, Souza PR, De Matteis R et al. PDn-3 DPA Pathway Regulates Human Monocyte Differentiation and Macrophage Function Cell Chem Biol May 16 2018 12:00AM [PMID: 29805036] (Flow) Cell Chem Biol. 2018-05-24 [PMID: 29805036] (Func)

Details:

Citation using the Alexa Fluor 647 form of this antibody.

Iranshahi M, Jabbari A, Orafaie A et al. Synthesis and SAR studies of mono O-prenylated coumarins as potent 15-lipoxygenase inhibitors Eur J Med Chem 2012-09-11 [PMID: 23047230] (Func)

Jabbari A, Davoodnejad M, Alimardani M et al. Synthesis and SAR Studies of Mono O-Prenylated Coumarins as Potent 15-Lipoxygenase Inhibitors Bioorg Med Chem 2012-09-15 [PMID: 22917856] (In vitro)



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### **Products Related to H00000246-P01-10ug**

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|                |                                               |
|----------------|-----------------------------------------------|
| NBP1-90336PEP  | 15-Lipoxygenase 1 Recombinant Protein Antigen |
| 210-TA-005     | TNF-alpha [Unconjugated]                      |
| NBP2-01740     | 15-Lipoxygenase 1 Antibody (OTI3G8)           |
| 6507-IL-010/CF | IL-4 [Unconjugated]                           |

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