

# Product Datasheet

## Recombinant Rat IL-1 alpha/IL-1F1 Protein NBP2-35227-2ug

Unit Size: 2ug

Store at -20 to -70C as supplied. After reconstitution, store at 2 to 8C for 1 month and at -20 to -70C for long term storage. Avoid repeated freeze-thaw cycles.

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**NBP2-35227-2ug**

Recombinant Rat IL-1 alpha/IL-1F1 Protein

Product Information	
Unit Size	2ug
Concentration	Lyoph
Storage	Store at -20 to -70C as supplied. After reconstitution, store at 2 to 8C for 1 month and at -20 to -70C for long term storage. Avoid repeated freeze-thaw cycles.
Preservative	No Preservative
Reconstitution Instructions	Recommended to centrifuge prior to opening. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0mg/mL.
Purity	> 97 % pure by SDS-PAGE and HPLC
Buffer	Lyophilized from a 0.2 um filtered concentrated solution in 20 mM Tris, 150 mM NaCl, pH 8.5.
Target Molecular Weight	17.8 kDa

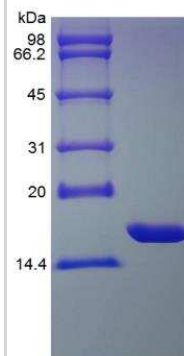
Product Description	
Description	A single non-glycosylated polypeptide chain containing 156 amino acids corresponding to IL-1 alpha/IL-1F1 <b>Source:</b> <i>E. coli</i>  <b>Uniprot ID:</b> <i>P16598</i>  <b>Amino Acid Sequence:</b> <i>SAPHSFQNNL RYKLIRIVKQ EFIMNDSLNQ NIYVDMDRIH LKAASLNDLQ LEVKFDMYAY SSGGDDSKYP VTLKVSNTQL FVSAQGEDKP VLLKEIPETP KLITGSETDL IFFWEKINSK NYFTSAAFPE LLIATKEQSQ VHLARGLPSM IDFQIS</i>
Gene ID	3552
Gene Symbol	IL1A
Species	Rat
Details of Functionality	IL1 alpha Protein is fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine D10S cells is less than 0.005 ng/ml, corresponding to a specific activity of > 2.0 x 10 <sup>8</sup> IU/mg.
Endotoxin Note	Less than 1 EU/ug of IL-1 alpha/IL-1F1 as determined by LAL method.

Product Application Details	
Applications	SDS-Page, Bioactivity
Recommended Dilutions	SDS-Page, Bioactivity



## Images

SDS-Page: Rat IL-1 alpha/IL-1F1 Protein [NBP2-35227]



## Publications

Luping Chen, Ling Ding, Xian Wang, Yufei Huang, Shou-Jiang Gao, Shou-Wei Ding Activation of glucocorticoid receptor signaling inhibits KSHV-induced inflammation and tumorigenesis mBio 2024-01-01 [PMID: 38117084]

Krista A Shisler, William M Kincannon, Jenna R Mattice, James Larson, Adam Valaydon-Pillay, Florence Mus, Tamara Flusche, Arnab Kumar Nath, Sebastian A Stoian, Simone Raugei, Brian Bothner, Jennifer L DuBois, John W Peters Homologous acetone carboxylases select Fe(II) or Mn(II) as the catalytic cofactor. mBio 2023-12-21 [PMID: 38126751]

Chen L, Ding L, Wang X et al. Activation of glucocorticoid receptor signaling inhibits KSHV-induced inflammation and tumorigenesis bioRxiv : the preprint server for biology 2023-11-14 [PMID: 38014281]



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