

Product Datasheet

Lipoxygenase Inhibitor Screening Assay Kit (Colorimetric) KA1329

Unit Size: 1 Kit

Storage of components varies. See protocol for specific instructions.

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KA1329**Lipoxygenase Inhibitor Screening Assay Kit (Colorimetric)**

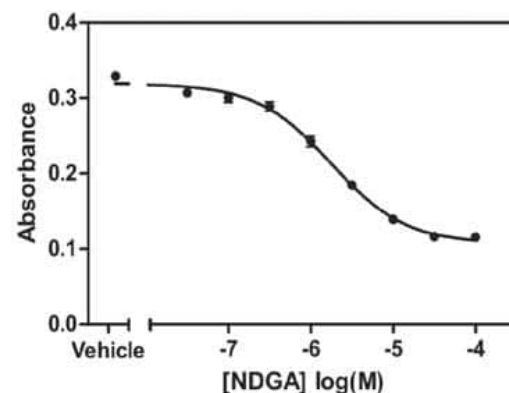
Product Information	
Unit Size	1 Kit
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Storage of components varies. See protocol for specific instructions.

Product Description	
Description	Lipoxygenase Inhibitor Screening Assay Kit is a measurement of detecting hydroperoxides produced in the lipoxygenation reaction.
Species	Human
Kit Components	Lipoxygenase Inhibitor Screening Assay Buffer (10X), Developing Reagent 1, Developing Reagent 2, 15-Lipoxygenase Standard, Arachidonic Acid (Substrate), Linoleic Acid (Substrate), Potassium Hydroxide, Nordihydroguaiaretic Acid (NDGA) Positive Control Inhibitor, 96-Well Solid Plate (Colorimetric Assay), 96-Well Cover Sheet
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Assay Type	Colorimetric
Suitable Sample Type	Compounds expected to inhibit Lipoxygenases
Sample Volume	10 uL/well. All samples should be assayed in duplicate at minimum.

Product Application Details	
Applications	Functional, Enzyme Activity
Recommended Dilutions	Functional, Enzyme Activity

Images

Lipoxygenase Inhibitor Screening Assay Kit (Colorimetric) [KA1329] - Inhibition of soybean 15-lipoxygenase by NDGA (IC₅₀= 9 uM).



Publications

Afifi O, Shaaban O, Abd H et al. Synthesis and biological evaluation of purine-pyrazole hybrids incorporating thiazole, thiazolidinone or rhodanine moiety as 15-LOX inhibitors endowed with anticancer and antioxidant potential. *Bioorg Chem.* 2019-04-01 [PMID: 30999135]

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Hongwei W, Enjing C, Jiaming L et al. Design and synthesis of novel indole and indazole-piperazine pyrimidine derivatives with anti-inflammatory and neuroprotective activities for ischemic stroke treatment. *Eur J Med Chem.* 2022-07-21 [PMID: 35931005]

Chaaban I, Rizk OH, Ibrahim TM et al. Synthesis, anti-inflammatory screening, molecular docking, and COX-1,2/-5-LOX inhibition profile of some novel quinoline derivatives. *Bioorg Chem* 2018-03-20 [PMID: 29602046]

Man Kyu Huh, Kyung-Soon Cho, Sung-Jong Jeon. et al. Inhibitory effect of lipoxygenase and DPPH radical scavenging activity of fraxinus rhynchophylla. *European Journal of Advanced Research in Biological and Life Sciences* 2015-07-01

Araujo JS, Chambo ED, Costa MAPC et al. Chemical Composition and Biological Activities of Mono- and Heterofloral Bee Pollen of Different Geographical Origins. *Int J Mol Sci* 2017-04-27 [PMID: 28448467]

Abd El Razik HA, Badr MH, Atta AH et al. Benzodioxole-Pyrazole Hybrids as Anti-Inflammatory and Analgesic Agents with COX-1,2/5-LOX Inhibition and Antioxidant Potential. *Arch Pharm (Weinheim)* 2017-04-18 [PMID: 28418202]

Plackova P, Sala M, Smidkova M et al. 9-Norbornyl-6-chloropurine (NCP) induces cell death through GSH depletion-associated ER stress and mitochondrial dysfunction. *Free Radic Biol Med* 2016-06-07 [PMID: 27288283]





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