

Recombinant Human ALOX5

Catalog No: #GP10047



Package Size: #GP10047-1 100ug

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Description

Product Name	Recombinant Human ALOX5
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to N terminal 359 amino acids of human Arachidonate 5-lipoxygenase Arachidonate 5-lipoxygenase
Target Name	Arachidonate 5-lipoxygenase
Other Names	5-LO, 5LPG, LOG5, 5-LOX
Accession No.	Swissprot:P09917Gene Accession:BC130332
Uniprot	P09917
GenID	240;
Storage	-20~-80°C, pH 7.6 PBS

Background

This gene encodes a member of the lipoxygenase gene family and plays a dual role in the synthesis of leukotrienes from arachidonic acid. The encoded protein, which is expressed specifically in bone marrow-derived cells, catalyzes the conversion of arachidonic acid to 5(S)-hydroperoxy-6-trans-8,11,14-cis-eicosatetraenoic acid, and further to the allylic epoxide 5(S)-trans-7,9-trans-11,14-cis-eicosatetraenoic acid (leukotriene A4). Leukotrienes are important mediators of a number of inflammatory and allergic conditions. Mutations in the promoter region of this gene lead to a diminished response to antileukotriene drugs used in the treatment of asthma and may also be associated with atherosclerosis and several cancers. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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