

# Recombinant Human Arachidonate 5-lipoxygenase 1

**Cat. No.** ALOX5-578H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human Arachidonate 5-lipoxygenase 1 is expressed in a Baculovirus overexpression system in Sf21 cells. The molecular weight of the recombinant ALOX5 is 78 kDa.                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | Sf21 Cells                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | Arachidonate 5-lipoxygenase (5-lipoxygenase, 5-LO or Alox5) is a member of the lipoxygenase family of enzymes. It transforms EFAs into leukotrienes and is a current target for pharmaceutical intervention in a number of diseases. This gene encodes a member of the lipoxygenase gene family and plays a dual role in the synthesis of leukotrienes from arachidonic acid. |
| <b>Purity</b>           | cell lysate 16,000 x g supernatant.                                                                                                                                                                                                                                                                                                                                           |
| <b>Formulation</b>      | A solution in 100 mM Tris, pH 8.0, containing 2 mM EGTA.                                                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>          | -80°C, 6 months.                                                                                                                                                                                                                                                                                                                                                              |

## GENE INFORMATION

|                  |                                                                         |
|------------------|-------------------------------------------------------------------------|
| <b>Gene Name</b> | ALOX5 arachidonate 5-lipoxygenase [ Homo sapiens ]                      |
| <b>Synonyms</b>  | arachidonate 5-lipoxygenase; ALOX5; 5-LO; 5LPG; LOG5; 5-LOX; MGC163204; |

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|                                                          |                                                                                                                                           |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| leukotriene A4 synthase; arachidonic acid 5-lipoxygenase |                                                                                                                                           |
| <b>Gene ID</b>                                           | 240                                                                                                                                       |
| <b>mRNA Refseq</b>                                       | NM_000698                                                                                                                                 |
| <b>Protein Refseq</b>                                    | NP_000689                                                                                                                                 |
| <b>MIM</b>                                               | 152390                                                                                                                                    |
| <b>UniProt ID</b>                                        | P09917                                                                                                                                    |
| <b>Chromosome Location</b>                               | 8p12                                                                                                                                      |
| <b>Pathway</b>                                           | Arachidonic acid metabolism; Metabolic pathways                                                                                           |
| <b>Function</b>                                          | arachidonate 5-lipoxygenase activity; iron ion binding; lipoxygenase activity; metal ion binding; oxidoreductase activity;protein binding |

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