

Product datasheet for **TP310211M**

12 Lipoxygenase (ALOX12) (NM_000697) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human arachidonate 12-lipoxygenase (ALOX12), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210211 representing NM_000697 Red =Cloning site Green =Tags(s)
	<p>MGRYRIRVATGAWLFSGSYNRVQLWLVGTRGEAELELQLRPARGEEEFDHDVAEDLGLLQFVRLRKHHW LVDDAWFCDRITVQPGGACAEVAFPCYRWWQGEDILSLPEGTARLPGDNALDMFQKHREKELKDRQIYC WATWKEGLPLTIAADRKDDLPPNMRFHEEKRLDFEWTLKAGALEMALKRVYLLSSWNCLEDFDQIFWGQ KSALAEKVRQCWQDDELFSYQFLNGANPMLLRRSTLPSRLVLPSPGMEELRAQLEKELQNGSLFEADFIL LDGIPANVIRGEKQYLAAPLVMLKMEPNGKLQPMVIQIPPNPSSPTPTLFLSPDPLAWLLAKSWVRNS DFQLHEIQYHLLNTHLVAEVIIVATMRCLPGLHPIFKFLIPHIRYTMETRARTQLISDGGIFDKAVST GGGGHVQLLRRAAAQLTYCSLCPDLDADRGLLGLPGALYAHDALRLWEIARYVEGIVHLFYQRDDIVK GDPELQAWCREITEVGLCQAQDRGFPVSFQSQSLCHFLTMCVFTCTAQHAAINQGQLDWAYVWPNA PCTMRMPPTTKEDVTMATVMGSLPDVRQAQLQMAISWHLRRQPDMVPLGHHKEKYFSGPKPKAVLNQFR TDLEKLEKEITARNEQLDWPYEYLPKPSCIENSVTI</p> <p>SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	75.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_000688](#)

Locus ID: 239

UniProt ID: [P18054](#)

RefSeq Size: 2335

Cytogenetics: 17p13.1

RefSeq ORF: 1989

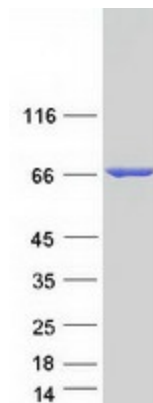
Synonyms: 12-LOX; 12S-LOX; LOG12

Summary: This gene encodes a member of the lipoxygenase family of proteins. The encoded enzyme acts on different polyunsaturated fatty acid substrates to generate bioactive lipid mediators including eicosanoids and lipoxins. The encoded enzyme and its reaction products have been shown to regulate platelet function. Elevated expression of this gene has been observed in pancreatic islets derived from human diabetes patients. Allelic variants in this gene may be associated with susceptibility to toxoplasmosis. Multiple pseudogenes of this gene have been identified in the human genome. [provided by RefSeq, Aug 2017]

Protein Families: Druggable Genome

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified ALOX12 protein (Cat# [TP310211]). The protein was produced from HEK293T cells transfected with ALOX12 cDNA clone (Cat# [RC210211]) using MegaTran 2.0 (Cat# [TT210002]).