

## Product datasheet for TP310211

### 12 Lipoygenase (ALOX12) (NM\_000697) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human arachidonate 12-lipoxygenase (ALOX12)
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210211 representing NM_000697 Red=Cloning site Green=Tags(s)
	<p>MGRYRIRVATGAWLFSGSYNRVQLWLVGTRGEAELELQLRPARGEEEFDHDVAEDLGLLQFVRLRKHHW LVDDAWFCDRITVQPGGACA EVA FPCYRWWVQGEDILSLPEGTARLPGDNALDMFQKHREKELKDRQQIYC WATWKEGLPLTIAADRKDDLPPNMRFH EEKRLDFEWTLKAGALEMALKRVYLLSSWNCLEDFDQIFWGG KSALAEKVRQCWQDDELFSYQFLNGANPMLLRSTLPSRLVLP SGMEELRAQLEKELQNGSLFEADFIL LDGIPANVIRGEKQYLAAPLVMLKMEPNGKLQPMVIQIPPNSSPTPTLFLSPDPLAWLLAKSWVRNS DFQLHEIQYHLLNTHLVAEVI AVATMRCLPGLHPIFKFLIPHIRYTM EINTRARTQLISDGGIFDKAVST GGGGHVQLLRAAAQLTYCSLCPPDDLADRGLLGLPGALYAH DALRLWEIARYVEGIVHLFYQRDDIVK GDPELQAWCREITEVGLCQAQDRGFPVSFQSQSLCHFLTMCVFTCTAQHAAINQGQLDWYAWVPNAPCT MRMPPPTTKEDVTMATVMGSLPDVRQA CLQMAISWHL SRRQPDMVPLGHHKEKYFSGPKPKAVLNQFR TD LEKLEKEITARNEQLDWPYEY LKPSCIENSVTI</p> <p>SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	75.5 kDa
Concentration:	>50 ug/mL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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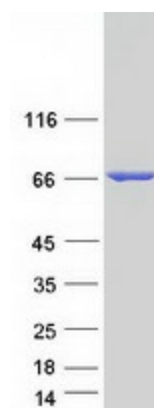
RefSeq:	<a href="#">NP_000688</a>
Locus ID:	239
UniProt ID:	<a href="#">P18054</a>
RefSeq Size:	2335
Cytogenetics:	17p13.1
RefSeq ORF:	1989
Synonyms:	12-LOX; 12S-LOX; LOG12

**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]).