

Product datasheet for PH310211

12 Lipoxygenase (ALOX12) (NM_000697) Human Mass Spec Standard

Product data:

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|---------------------------------------|--|
| Product Type: | Mass Spec Standards |
| Description: | ALOX12 MS Standard C13 and N15-labeled recombinant protein (NP_000688) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC210211 |
| Predicted MW: | 75.5 kDa |
| Protein Sequence: | >RC210211 representing NM_000697 Red=Cloning site Green=Tags(s) |

MGRYRIRVATGAWLFSGSYNRVQLWLVGTRGEAELELQLRPARGEEEFDHDVAEDLGLLQFVRLRKHWW
LVDDAWFCDRITVQGPACAEVAFPCYRWVQGEDILSLPEGTARLPGDNALDMFQKHREKELKDRQQIYC
WATWKEGLPLTIAADRKDDLPPNMRFHEEKRLDFEWTLKAGALEMALKRVYTLSSWNCLEDFDQIFWQ
KSALAEKVRQCWQDELFSYQFLNGANPMLRRSTSLPSRLVLPSCMEELRAQLEKELQNGSLFEADFIL
LDGIPANVIRGEKQYLAAPLVMKMEPNGKLQPMVIQIQQPNPSSPTPTLFLPSDPLAWLLAKSWVRNS
DFQLHEIQYHLLNTHLVAEVIAVATMRCLPGLHPIFKFLIPHIRYTMETRARTQLISDGGIFDKAVST
GGGGHVQLLRAAAQLTYCSLCPDDLADRGLLGLPGALYAHDALRLWEIARYVEGIVHLFYQRDDIVK
GDPQLQAWCREITEVGLCQAQDRGFPVSFQSQSLCHFLTMCVFTCTAQHAAINQGLDQWYAWVPNAPCT
MRMPPTTKEDVTMATVMGSLPDVVRQAQLQMAISWHLRRQPDMVPLGHHKEKYFSGPKPKAVLNQFRTD
LEKLEKEITARNEQLDWPYEYLPKPSCIENSVTI

SGPTRTRRLEQKLI SEEDLAANDILDYKDDDDKV

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|------------------|--|
| Tag: | C-Myc/DDK |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Labeling Method: | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq: | NP_000688 |
| RefSeq Size: | 2335 |



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RefSeq ORF: 1989

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

Locus ID: 239

UniProt ID: [P18054](#)

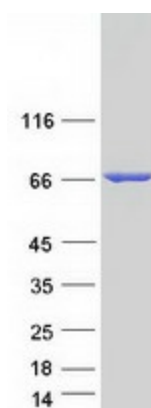
Cytogenetics: 17p13.1

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]).