OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TP527302

Alox12 (NM_007440) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse arachidonate 12-lipoxygenase (Alox12), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR227302 representing NM_007440 Red=Cloning site Green=Tags(s) MGRYRVRVVTGAWLFSGSLNLVRLWLVGEHREAKLELQLRPARGKEEEFDFDVPEDLGPLQFVKLHKQHT VVDDAWFCNLITVQGPGTSAEAVFPCYRWVQGEGILSLPEGTARLAGDNALDVFQKYREKELKERQQTYC WATWKEGLPQTIAADCKDDLPPNMRFHEEKRLDFEWTLKAGVLEMGLKRVYTLLRSWNHLEDFDQIFWGQ KSALAEKVHQCWQEDELFGYQFLNGANPMLLRRSTSLPSRLVLPSGMEELQAQLEKELKNGSLFEADFIL LDGIPANVIRGEPQYLAAPLVMLRMDPGGKLLPMAIQIQPPNPSSPAPTLFLPSDPPLAWLLAKIWVRNS DFQLQELQFHLLNTHLVAEVIAVATMRCLPGLHPIFKLLVPHIRYTMEINTRSRTQLISDGGIFDQVVST GGGGHVQLLTRAVAQLTYHSLCPPDDLANRGLLRIPSALYARDALQLWEVTARYVKGMVHLFYQSDDIVR GDPELQAWCREITEVGLCHAQDRGFPVSFQSRAQLCHFLTMCVFTCTAQHAAINQGQLDWYGWVPNAPCT MRMPPPTSKDDVTMETVMGSLPDVQKACLQMTITWHLGRLQPDMVPLGHHTEKYFSDPRTKAVLSQFQAD LDNLEKEITARNEQLDLPYEYLKPSRIENSITI TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	75.8 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
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 after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

View online »

RefSeq:	NP_031466
Locus ID:	11684
UniProt ID:	P39655, A2CF85
RefSeq Size:	2991
Cytogenetics:	11 42.99 cM
RefSeq ORF:	1989
Synonyms:	9930022G08Rik; Alox12p; P-12LO
Summary:	Non-heme iron-containing dioxygenase that catalyzes the stereo-specific peroxidation of free and esterified polyunsaturated fatty acids generating a spectrum of bioactive lipid mediators. Mainly converts arachidonic acid to (12S)-hydroperoxyeicosatetraenoic acid/(12S)-HPETE but can also metabolize linoleic acid. Has a dual activity since it also converts leukotriene A4/LTA4 into both the bioactive lipoxin A4/LXA4 and lipoxin B4/LXB4. Through the production of specific bioactive lipids like (12S)-HPETE it regulates different biological processes including platelet activation. It also probably positively regulates angiogenesis through regulation of the expression of the vascular endothelial growth factor. Plays a role in apoptotic process, promoting the survival of vascular smooth muscle cells for instance. May also play a role in the control of cell migration and proliferation.[UniProtKB/Swiss-Prot Function]