Recombinant Mouse SMOX Protein (1-555 aa), His-tagged

Cat. No. SMOX-1524M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse SMOX Protein (1-555 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length.
Species	Mouse
Source	Yeast
ProteinLength	1-555 aa
Description	Flavoenzyme which catalyzes the oxidation of spermine to spermidine. Can also use N(1)-acetylspermine and spermidine as substrates, with different affinity depending on the isoform (isozyme) and on the experimental conditions. Plays an important role in the regulation of polyamine intracellular concentration and has the potential to act as a determinant of cellular sensitivity to the antitumor polyamine analogs. May contribute to beta-alanine production via aldehyde dehydrogenase conversion of 3-amino-propanal.
Form	Tris-based buffer,50% glycerol
Molecular Mass	63.9 kDa
AA Sequence	MQSCESSGDSADDPLSRGLRRRGQPRVVVIGAGLAGLAAARALLEQGFTDVTVLEA SSHIGGRVQSVRLGDTTFELGATWIHGSHGNPIYQLAEANGLLEETTDGERSVGRIS LYSKNGVACYLTNRGCRIPKDVVEEFSDLYNEVYNMTQEFFRHGKPVNAESQNSVG

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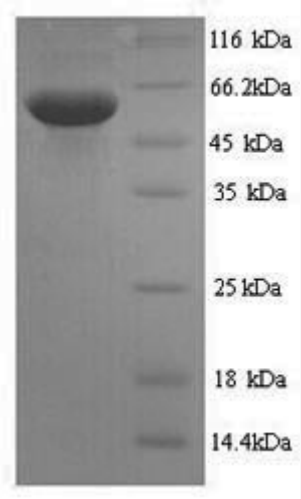
	VFTREKVRNRIRDDPDDTEATKRLKLAMIQQYLKVESCESSSHSIDEVSLSAFGEWT EIPGAHHIIPSGFMRVVELLAEGIPPHVIQLGKPVRCIHWDQASAHPRGPEIEPRGEG DHNHDTGEGGQSGENPQQGRWDEDEPWPVVVECEDCEVIPADHVIVTVSLGVLKR QYTSFFRPCLPTEKVAAIHRLGIGTTDKIFLEFEEPFWGPECNSLQFVWEDEAESCTL TYPPELWYRKICGFDVLYPPERYGHVLSGWICGEEALVMERCDDEAVAEICTEMLR QFTGNPNIPKPRRILRSAWGSNPYFRGSYSYTQVGSSGADVEKLAKPLPYTESSKT APMQVLFSGEATHRKYYSTTHGALLSGQREAARLIEMYRDLFQQGP	
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	Smox spermine oxidase [Mus musculus (house mouse)]
Official Symbol	SMOX
Synonyms	PAO; SMO; PAOh1; B130066H01Rik;
Gene ID	228608
mRNA Refseq	NM_001177833

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Protein Refseq	NP_001171304
UniProt ID	Q99K82



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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