Recombinant Mouse Smox Protein, Myc/DDK-tagged

Cat. No. Smox-5975M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length spermine oxidase (Smox), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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.
Molecular Mass	61.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method

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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Smox spermine oxidase [Mus musculus (house mouse)]
Official Symbol	Smox
Synonyms	Smox; spermine oxidase; S; PAO; SMO; PAOh1; B130066H01Rik; spermine oxidase; PAO-1; polyamine oxidase 1; EC 1.5.3.16
Gene ID	228608
mRNA Refseq	NM_145533
Protein Refseq	NP_663508
UniProt ID	Q99K82

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