

Spermine oxidase Recombinant Protein | Smox recombinant protein

Recombinant Mouse Spermine oxidase (Smox)

CATALOG # AAA117656	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
-------------------------------	---

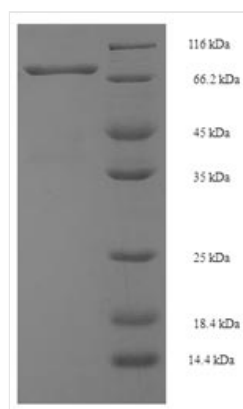
PRODUCT SYNONYMS

Spermine oxidase; Recombinant Mouse Spermine oxidase (Smox); Polyamine oxidase 1; PAO-1; PAOh1; Smox recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-555. Full-Length
Sequence	MQSCSSGDS ADDPLSRGLR RRGQPRVVI GAGLAGLAAA RALLEQGFTD VTVLEASSHI GGRVQSVRLG DDTFELGATW IHGSHGNPIY QLAEANGLLE ETTDGERSVG RISLYSKNGV ACYLTNRGCR IPKDVVEEFS DLYNEVYNMT QEFFRHGKPV NAESQNSVG VFTREKVRNRI RDDPDDTEAT KRLKLAMIQQ YLKVESCESS SHSIDEVSLS AFGIEWTEIPG AHHIIPSGFM RVVELLAEGI PPHVIQLGKP VRCIHWDQAS AHPRGPEIEP RGEGDHNDHT GEGGQSGENP QQGRWDEDEP WPVVVECEDC EVIPADHVIV TVSLGVLRKQ YTSFFRPCLP TEKVAIHLR GIGTTDKIFL EFEEPFWGPE CNSLQFVWED EAESCTLTYP PELWYRKICG FDLVYPPERY GHVLSGWICG EEALVMERCD DEAVAEICTE MLRQFTGNPN IPKPRRILRS AWGSNPYFRG SYSYTQVGSS GADVEKLAKP LPYTESSKTA PMQVLFSGEA THRKYYSTTH GALLSGQREA ARLIEMYRDL FQQGP
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Smox recombinant protein	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.
--	--

References	Mouse spermine oxidase gene splice variants. Nuclear subcellular localization of a novel active isoform.Cervelli M., Bellini A., Bianchi M., Marcocci L., Nocera S., Polticelli F., Federico R., Amendola R., Mariottini P.Eur. J. Biochem. 271:760-770(2004) Wang Y., Devereux W., Stewart T.M., Casero R.A. Jr. Lineage-specific biology revealed by a finished genome assembly of the mouse.Church D.M., Goodstadt L., Hillier L.W., Zody M.C., Goldstein S., She X., Bult C.J., Agarwala R., Cherry J.L., DiCuccio M., Hlavina W., Kapustin Y., Meric P., Maglott D., Birtle Z., Marques A.C., Graves T., Zhou S., Teague B., Potamouisis K., Churas C., Place M., Herschleb J., Runnheim R., Forrest D., Amos-Landgraf J., Schwartz D.C., Cheng Z., Lindblad-Toh K., Eichler E.E., Ponting C.P.PLoS Biol. 7:E1000112-E1000112(2009) Identification and characterization of a novel flavin-containing spermine oxidase of mammalian cell origin.Vujcic S., Diegelman P., Bacchi C.J., Kramer D.L., Porter C.W.Biochem. J. 367:665-675(2002)
------------	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	295389670
NCBI GeneID	228608
NCBI Accession #	NP_001171304.1
NCBI GenBank Nucleotide #	NM_001177833.1
UniProt Accession #	Q99K82; Q70LA3; Q70LA4; Q70LA5; Q70LA7; Q70LA8; Q70LA9; A2ANQ8; A2ANQ9; A2ANR0; A2ANR1; A2ANR2
Molecular Weight	63.9 kDa
NCBI Official Full Name	spermine oxidase isoform a
NCBI Official Synonym Full Names	spermine oxidase
NCBI Official Symbol	Smox
NCBI Official Synonym Symbols	PAO; SMO; PAOh1; B130066H01Rik
NCBI Protein Information	spermine oxidase
UniProt Protein Name	Spermine oxidase
UniProt Gene Name	Smox
UniProt Synonym Gene Names	Smo; PAO-1; PAOh1
UniProt Entry Name	SMOX_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.