



# Recombinant Mouse Spermine oxidase (Smox)

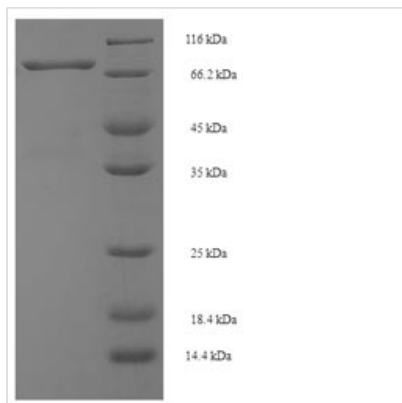
<b>Product Code</b>	CSB-EP021844MO
<b>Relevance</b>	Flavoenzyme which catalyzes the oxidation of spermine to spermidine. Can also use N(1)-acetylspermine and spermidine as substrates, with different affinity depending on the isoform (isozyme) and on the experimental conditions. Plays an important role 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.
<b>Abbreviation</b>	Recombinant Mouse Smox protein
<b>Storage</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q99K82
<b>Alias</b>	Polyamine oxidase 1 ;PAO-1 ;PAOh1
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	MQSCESSGDSADDPLSRGLRRRGQPRVVVIGAGLAGLAAARALLEQGFTDVT VLEASSHIGGRVQSVRLGDTTFELGATWIHGSHGNPIYQLAEANGLLEETTDG ERSVGRISLYSKNGVACYLTNRGCRIPKDVVEEFSDLYNEVYNMTQEFFRHGK PVNAESQNSVGVFTREKVRNRIRDDPDDTEATKRLKLAMIQQYLKVESCESS HSIDEVLSAFAWTEIPGAHIIIPSGFMRVVELLAEGIPPHVIQLGKPVRCIHW DQASAHPRGPEIEPRGEGDHNHDTGEGGQSGENPQQGRWDEDEPWVVE CEDCEVIPADHVIVTVSLGVLKRQYTSFFRPCLPTEKVAIIHRLGIGTTDKIFLEF EFPFWGPECNSLQFVWEDEAESCTLTYPPELWYRKICGFDVLYPPERYPYGHVL SGWICGEEALVMERCDDAEVAEICTEMLRQFTGNPNIPKPRRILSAWGSNPY FRGSYSYTVGSSGADVEKLAKPLPYTESSKTAPMQVLFSGEATHRKYYSTT HGALLSGQREARLIEMYRDLFQQGP
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Target Names</b>	Smox
<b>Protein Names</b>	Recommended name: Spermine oxidase EC= 1.5.3.16 Alternative name(s): Polyamine oxidase 1 Short name= PAO-1 Short name= PAOh1
<b>Expression Region</b>	1-555aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged



**Mol. Weight** 77.9kDa

**Protein Length** Full Length

**Image**



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

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

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