



Recombinant Mouse Spermine oxidase (Smox)

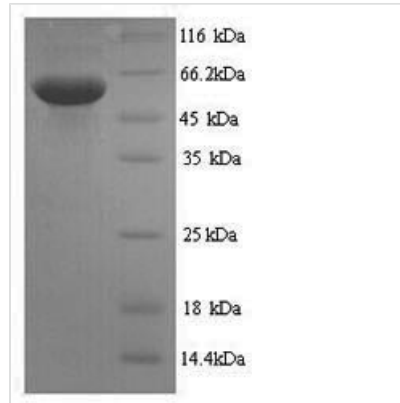
Product Code	CSB-YP021844MO
Relevance	Flavoenzyme which catalyzes the oxidation of spermine to spermidine. Can also use N(1)-acetylspermine and spermidine as substrates, with different affinity depending on the isoform (isozyme) and on the experimental conditions. Plays an important role in the regulation 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.
Abbreviation	Recombinant Mouse Smox protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q99K82
Alias	Polyamine oxidase 1 Short name: PAO-1 Short name: PAOh1
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MQSCSSGDSADDPLSRGLRRRGQPRVVVIGAGLAGLAAARALLEQGFTDVT VLEASSHIGGRVQSVRLGDTTFELGATWIHGSHGNPIYQLAEANGLLEETTDG ERSVGRISLYSKNGVACYLTNRGCRIPKDVVEEFSDLYNEVYNMTQEFFRHGK PVNAESQNSVGVFTREKVRNRIRDDPDDTEATKRLKLAMIQQYLKVESCESS HSIDEVLSAFAWTEIPGAHHIIPSGFMRVVELLAEGIPPHVIQLGKPVRCIHW DQASAHPRGPEIEPRGEGDHNHDTGEGGQSGENPQQGRWDEDEPWVVE CEDCEVIPADHVIVTVSLGVLKRQYTSFFRPCLPTEKVAIIHRLGIGTTDKIFLEF EFPFWGPECNSLQFVWEDEAESCTLTYPPELWYRKICGFDVLYPPERYPYGHVL SGWICGEEALVMERCDDAEVAEICTEMLRQFTGNPNIPKPRRILRSAWGSNPY FRGSYSYTVGSSGADVEKLAKPLPYTESSKTAPMQVLFSGEATHRKYYSTT HGALLSGQREARLIEMYRDLFQQGP
Research Area	Others
Source	Yeast
Target Names	Smox
Protein Names	Recommended name: Spermine oxidase EC= 1.5.3.16 Alternative name(s): Polyamine oxidase 1 Short name= PAO-1 Short name= PAOh1
Expression Region	1-555aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged



Mol. Weight 63.9kDa

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

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.