

Recombinant Mouse Spermine oxidase(Smox)

Catalog No: #AP70786

Package Size: #AP70786-1 20ug #AP70786-2 100ug #AP70786-3 1mg

Description

Product Name	Recombinant Mouse Spermine oxidase(Smox)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-555aaSequence Info:Full Length
Other Names	Polyamine oxidase 1 ;PAO-1 ;PAOh1
Accession No.	Q99K82
Calculated MW	77.9 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MQSCCESSGDSADDPLSRGLRRRGQPRVVIGAGLAGLAAARALLEQGFTDVTVLEASSHIGGRVQSVRLGDT TFELGATWIHGSHGNPIYQLAEANGLLEETTDGERSVGRISLYSKNGVACYLTNRGCRIPKDVVEEFS DLYNEVYNMTQEFFRHHGKPVNAESQNSVGVTREKVRNRIRDDPDDTEATKRLKLAMIQQYLKVESCESS SHSIDEVSLSAFGEWTEIPGAHHIIPSGFMRVVELLAEGIPPHVIQLGKPVRCIHWDQASAHPRGPEI EPREGEDHNNHDTGEGGQSGENPQQGRWDEDEPWVVECEDCEVIPADHVIVTVSLGVLKRQYTSFFR PCLPTEKVAAIHRLGIGTTDKIFLEFEFPFWGPECNSLQFVWEDEAESCTLTYPPELWYRKICGFDV LYPPERYGHVLSGWICGEEALVME RCDDEAVAEICTEMLRQFTGNPNIPKPRILRSAWGSNPYFRG SYSYTVQVGSSGADVEKLAKPLPYTESSKTA PMQVLFSGEATHRKYYSTTHGALLSGQREARLI EMYRDLFQQGP
Formulation	Tris-based buffer50% glycerol
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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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

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)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.