

Recombinant *Mus musculus* Spermine oxidase

Catalog No: #AP72789



Package Size: #AP72789-1 20ug #AP72789-2 100ug #AP72789-3 1mg

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Recombinant <i>Mus musculus</i> Spermine oxidase
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-555aaSequence Info:Full Length
Other Names	Polyamine oxidase 1 Short name: PAO-1 Short name: PAOh1
Accession No.	Q99K82
Uniprot	Q99K82
GeneID	228608;
Calculated MW	63.9 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MQSCCESSGDSADDPLSRGLRRRGQPRVVVIGAGLAGLAAARALLEQGFTDVTVLEASSHIGGRVQSVRLGDT TFELGATWIHGSHGNPIYQLAEANGLLEETTDGERSVGRISLYSKNGVACYLTNRGCRIPKDVVEEFSDLYNEV YNMTQEFFRHGKPVNAESQNSVGVFTREKVRNRIRDDPDDTEATKRLKLAMIQQYLKVESCESSSHSIDEVSL SAFGEWTEIPGAHHIIPSGFMRVVELLAEGIPPHVIQLGKPVRCIHWDQASAHPRGPEIEPRGEGDHNHDTGE GGQSGENPQQGRWDEDEPWVVECEDCEVIPADHVIVTVSLGVLKRQYTSFFRPCLPTEKVAIHRIGIT DKIFLEFEPPFWGPECNSLQFVWEDEAESCTLTYPPELWYRKICGFDVLYPPERYGHVLSGWICGEEALVME RCDDEAVAEICTEMLRQFTGNPNIPKPRRILRSWGSNPYFRGSYSYTVQVSSGADVEKLAKPLPYTESSKTA PMQVLFSGEATHRKYYSTTHGALLSGQREARLIEMYRDLFQQGP
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

"The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC)." The MGC Project Team
Genome Res. 14:2121-2127(2004) Research Topic: Others

Note: This product is for in vitro research use only