Recombinant Eschscholzia californica Reticuline oxidase

Catalog No: #AP72936

Package Size: #AP72936-1 20ug #AP72936-2 100ug #AP72936-3 1mg

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Recombinant Eschscholzia californica Reticuline oxidase
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:24-538aaSequence Info:Full Length
Other Names	Berberine bridge-forming enzyme ;BBETetrahydroprotoberberine synthase
Accession No.	P30986
Uniprot	P30986
Calculated MW	59.4 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	GNDLLSCLTFNGVRNHTVFSADSDSDFNRFLHLSIQNPLFQNSLISKPSAIILPGSKEELSNTIRCIRKGSWTIRL RSGGHSYEGLSYTSDTPFILIDLMNLNRVSIDLESETAWVESGSTLGELYYAITESSSKLGFTAGWCPTVGTGG HISGGGFGMMSRKYGLAADNVVDAILIDANGAILDRQAMGEDVFWAIRGGGGGVWGAIYAWKIKLLPVPEKVT VFRVTKNVAIDEATSLLHKWQFVAEELEEDFTLSVLGGADEKQVWLTMLGFHFGLKTVAKSTFDLLFPELGLVE EDYLEMSWGESFAYLAGLETVSQLNNRFLKFDERAFKTKVDLTKEPLPSKAFYGLLERLSKEPNGFIALNGFG GQMSKISSDFTPFPHRSGTRLMVEYIVAWNQSEQKKKTEFLDWLEKVYEFMKPFVSKNPRLGYVNHIDLDLG GIDWGNKTVVNNAIEISRSWGESYFLSNYERLIRAKTLIDPNNVFNHPQSIPPMANFDYLEKTLGSDGGEVVI
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

Essential to the formation of benzophenanthridine alkaloids in the response of plants to pathogenic attack. Catalyzes the stereospecific conversion of the N-methyl moiety of (S)-reticuline into the berberine bridge carbon of (S)-scoulerine.

References

Molecular cloning, expression, and induction of berberine bridge enzyme, an enzyme essential to the formation of benzophenanthridine alkaloids in the response of plants to pathogenic attack.Dittrich H., Kutchan T.M.Proc. Natl. Acad. Sci. U.S.A. 88:9969-9973(1991)Research Topic:Others

Note: This product is for in vitro research use only