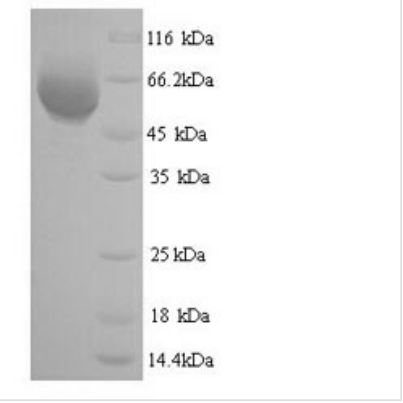
Recombinant Eschscholzia californica Reticuline oxidase (BBE1)

Product Code	CSB-YP341191EOT
Relevance	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.
Abbreviation	Recombinant Eschscholzia californica BBE1 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.	P30986
Alias	Berberine bridge-forming enzyme ;BBETetrahydroprotoberberine synthase
Product Type	Recombinant Protein
Immunogen Species	Eschscholzia californica (California poppy)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	GNDLLSCLTFNGVRNHTVFSADSDSDFNRFLHLSIQNPLFQNSLISKPSAIILPG SKEELSNTIRCIRKGSWTIRLRSGGHSYEGLSYTSDTPFILIDLMNLNRVSIDLES ETAWVESGSTLGELYYAITESSSKLGFTAGWCPTVGTGGHISGGGFGMMSRK YGLAADNVVDAILIDANGAILDRQAMGEDVFWAIRGGGGGVWGAIYAWKIKLL PVPEKVTVFRVTKNVAIDEATSLLHKWQFVAEELEEDFTLSVLGGADEKQVWL TMLGFHFGLKTVAKSTFDLLFPELGLVEEDYLEMSWGESFAYLAGLETVSQLN NRFLKFDERAFKTKVDLTKEPLPSKAFYGLLERLSKEPNGFIALNGFGGQMSKI SSDFTPFPHRSGTRLMVEYIVAWNQSEQKKKTEFLDWLEKVYEFMKPFVSKN PRLGYVNHIDLDLGGIDWGNKTVVNNAIEISRSWGESYFLSNYERLIRAKTLIDP NNVFNHPQSIPPMANFDYLEKTLGSDGGEVVI
Research Area	Others
Source	Yeast
Target Names	BBE1
Protein Names	Recommended name: Reticuline oxidase EC= 1.21.3.3 Alternative name(s): Berberine bridge-forming enzyme Short name= BBE Tetrahydroprotoberberine synthase
Expression Region	24-538aa
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	59.4kDa

Protein Length	Full Length of Mature Protein

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.