Reticuline oxidase Recombinant Protein | BBE1 recombinant protein

Recombinant Eschscholzia californica Reticuline oxidase

CATALOG #	HOST
AAA114386	**E Coli or Yeast or Baculovirus or Mammalian Cell**

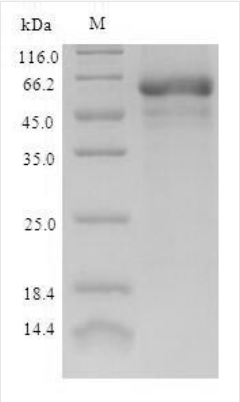
PRODUCT SYNONYMS

Reticuline oxidase; Recombinant Eschscholzia californica Reticuline oxidase; Berberine bridge-forming enzyme; BBE; Tetrahydroprotoberberine synthase; BBE1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	24-538aa; Full Length of Mature Protein
Sequence	GNDLLSCLTF NGVRNHTVFS ADSDSDFNRF LHLSIQNPLF QNSLISKPSA IILPGSKEEL SNTIRCIRKG SWTIRLRSGG HSYEGLSYTS DTPFILIDLM NLNRVSIDLE SETAWVESGS TLGELYYAIT ESSSKLGFTA GWCPTVGTGG HISGGGFGMM SRKYGLAADN VVDAILIDAN GAILDRQAMG EDVFWAIRGG GGGVWGAIYA WKIKLLPVPE KVTVFRVTKN VAIDEATSLL HKWQFVAEEL EEDFTLSVLG GADEKQVWLT MLGFHFGLKT VAKSTFDLLF PELGLVEEDY LEMSWGESFA YLAGLETVSQ LNNRFLKFDE RAFKTKVDLT KEPLPSKAFY GLLERLSKEP NGFIALNGFG GQMSKISSDF TPFPHRSGTR LMVEYIVAWN QSEQKKKTEF LDWLEKVYEF MKPFVSKNPR LGYVNHIDLD LGGIDWGNKT VVNNAIEISR SWGESYFLSN YERLIRAKTL IDPNNVFNHP QSIPPMANFD YLEKTLGSDG GEVVI
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for BBE1 recombinant protein	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) Isolation and analysis of a gene bbe1 encoding the berberine bridge enzyme from the California poppy Eschscholzia californica.Hauschild K., Pauli H.H., Kutchan T.M.Plant Mol. Biol. 36:473-478(1998) Structural and mechanistic studies reveal the functional role of bicovalent flavinylation in berberine bridge enzyme.Winkler A., Motz K., Riedl S., Puhl M., Macheroux P., Gruber K.J. Biol. Chem. 284:19993-20001(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	400972
UniProt Accession #	P30986
Molecular Weight	59.4 kDa
NCBI Official Full Name	Reticuline oxidase
UniProt Protein Name	Reticuline oxidase
UniProt Gene Name	**BBE1**
UniProt Synonym Gene Names	BBE
UniProt Entry Name	RETO_ESCCA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/bbe1-recombinant-protein-e-coli/114386