

Recombinant Eschscholzia Californica BBE1 Protein (24-538 aa), His-tagged

Cat. No. BBE1-1598E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Eschscholzia Californica (California poppy) BBE1 Protein (24-538 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Eschscholzia Californica
Source	Yeast
ProteinLength	24-538 aa
Description	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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	59.4 kDa
AA Sequence	GNDLLSCLTFNGVRNHTVFSADSDSDFNRFLHLSIQNPLFQNSLISKPSAILPGSKEE LSNTIRCIRKGSWTIRLRSGGHSYEGLSYSDTPFILIDLMNLNRVSIDLESETAWVES GSTLGELYAITESSSKLGFTAGWCPTVGTGGHISGGGFGMMSRKYGLAADNVVDA ILIDANGAILDRQAMGEDVFWAIRGGGGGVWGAIYAWKIKLLPVPEKVTVFRVTKNV AIDEATSLHLKWQFVAEELEEDFTLSVLGGADEKQVWLTMLGFHFGLKTVAKSTFDL LFPELGLVEEDYLEMSWGESFAYLAGLETVSQNLNNRFLKFDERAFKTKVDLTKEPLP

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SKAFYGLLERLSKEPNGFIALNGFGGQMSKISSDFTPFPHRSGTRLMVEYIVAWNQS
EQKKKTEFLDWLEKVYEFMKPFVSKNPRLGYVNHIDLDLGGIDWGNKTVVNNAIEIS
RSWGESYFLSNYERLIRAKTLIDPNNVFNHPQSIPPMANFDYLEKTLGSDGGEVVI

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

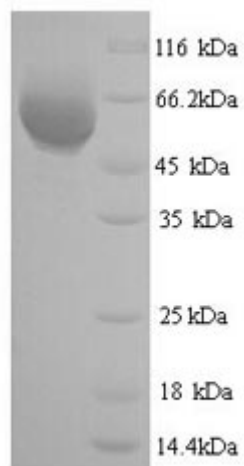
Synonyms BBE1; Berberine bridge-forming enzyme; BBETetrahydroprotoberberine synthase;

UniProt ID [P30986](#)

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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