

## Reticuline oxidase Protein, Eschscholzia californica, Recombinant (His)

### General Information

Synonyms:	Tetrahydroprotoberberine synthase;Reticuline oxidase;Berberine bridge-forming enzyme (BBE);BBE1
Protein Construction:	24-538 aa
Species:	Eschscholzia californica
Expression Host:	E. coli
Accession:	P30986
Molecular Weight:	61.4 kDa (predicted)
AA Sequence:	GNDLLSCLTFNGVRNHTVFSADSDSDFNRFLHLSIQNPLFQNSLISKPSAILPGSKEELSNTIRCIRKGSWTIRL RSGGHSYEGLSYTSDFILIDLMNLNRVSDLESETAWVESGSLGELYAITESSSKLGFTAGWCPTVGTGGH ISGGGFGMMSRKYGLAADNVVDAILIDANGAILDRQAMGEDVFWAIRGGGGGVWGAIYAWKIKLLPVPEKVT VFRVTKNVAIDEATSLHKWQFVAEELEEDFTLSVLGGADEKQVWLTMGLGFHFGKTVAKSTFDLLFPELGLVE EDYLEMSWGESFAYLAGLETVSQLNRRFLKFDERAFKTKVDLTKEPLPSKAFYGLLERLSKEPNGFIALNGFGG QMSKISSDFTPFPHRSCTRLMVEYIVAWNQSEQKKKTEFLDWLEKVYEFMKPFVSKNPRLGYVNHIDLDLGGI DWGNKTVVNNAIEISRWSGESYFLSNYERLIRAKTLIDPNNVFNHPQSIPPMANFDYLEKTLGSDGGGEVVI

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

## A DRUG SCREENING EXPERT

---

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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286   E\_mail: info@targetmol.com   Address: 34 Washington Street, Wellesley Hills, MA 02481