

Recombinant *Staphylococcus aureus* entE Protein Product Manual

1. Product Basic Information

Product No.: REP06776

Protein Name: 2,3-Dihydroxybenzoate-Amp Ligase (entE)

Aliases: 2,3-dihydroxybenzoate-AMP ligase

UniProt ID: P12993

UniProt Link: <https://www.uniprot.org/uniprotkb/P12993/entry>

Species Source: *Staphylococcus aureus*

Expression System: E.coli

Protein Length: Full Length of Mature Protein (28-257aa)

Molecular Weight: 42.4kDa

Protein Tag: N-terminal 6xHis-SUMO-tagged

2. Amino Acid Sequence (28-257aa)

SEEINEKDLRKKSELQRNALS NLRQIYYNEKAITENKESDDQFLENTLLFKGFFTGH
PWYNDLLVDLGSKDATNKYKGKKVDLYGAYYG YQCAGGTPNKTACMYGGVTLHD
NNRLTEKKVPINLWIDGKQTTVPIDKVKTSKKEVTVQELDLQARHYLHGKFGLYNS
DSFGGKVQRGLIVFHSSEGSTVS YDLFDAQGQYPDTLLRIYRDNKTINSEN LHIDL YL
YTT

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant *Staphylococcus aureus* entE full length of mature protein (28-257aa) expressed in *E.coli*. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. entE, also known as 2,3-dihydroxybenzoate-AMP ligase, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.