

Recombinant Rat DOPD Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52424

Size: 10ug, 100ug

Protein Name: D-dopachrome decarboxylase (EC 4.1.1.84) (D-dopachrome tautomerase)

Synonym: Ddt

UniProt ID: P80254

UniProt Link: www.uniprot.org/uniprotkb/P80254/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 118 AA

Molecular Weight: 13 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MPFVELETNLPASRIPAGLENRLCAATATILDKPEDRVSVTIRPGMTLLMNKSTEPCAHLLISSIGVVG
TAEQNRSHSSSFFKFLTEELSLDQDRIIRFFPLEPWQIGKKGTVMFTL

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant D-dopachrome decarboxylase (EC 4.1.1.84) (D-dopachrome tautomerase) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Tautomerization of D-dopachrome with decarboxylation to give 5,6-dihydroxyindole (DHI).

Subcellular Localization: Cytoplasm .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.