

## DDT recombinant protein

DDT, 1-118aa, Human, His tag, E Coli

|                              |                       |                                 |
|------------------------------|-----------------------|---------------------------------|
| CATALOG #<br><b>AAA11781</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|-----------------------|---------------------------------|

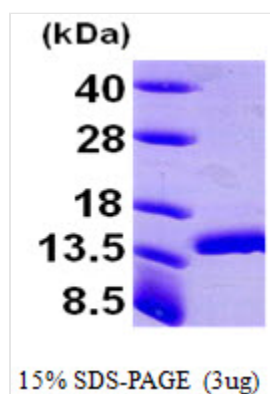
### PRODUCT SYNONYMS

DDT; 1-118aa; Human; His tag; E Coli; D-dopachrome tautomerase; DDCT; D-dopachtome decarboxylase; D dopachrome decarboxylase; D dopachrome tautomerase; Phenylpyruvate tautomerase II; ; DDT recombinant protein

### PRODUCT SPECIFICATIONS

|                                                     |                                                                                                                                                            |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                | E Coli                                                                                                                                                     |
| Purity/Purification                                 | > 95% by SDS-PAGE                                                                                                                                          |
| Form/Format                                         | Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol                                                                                          |
| Concentration                                       | 1 mg/ml (determined by Bradford assay) (varies by lot)                                                                                                     |
| Sequence                                            | MGSSHHHHHH SSGLVPRGSH MPFLELDTNL PANRVPAGLE KRLCAAAASI LGKPADRVNV TVRPGLAMAL<br>SGSTEPCAQL SISSIGVVGT AEDNRSHSAH FFEFLTKELA LGQDRILIRF FPLESWQIGK IGTVMTFL |
| Sequence Length                                     | 118                                                                                                                                                        |
| Applicable Applications for DDT recombinant protein | SDS-PAGE                                                                                                                                                   |
| Tag Information                                     | His-tag                                                                                                                                                    |
| Domain                                              | 1-118aa                                                                                                                                                    |
| Preparation and Storage                             | Can be stored at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.            |

### IMAGES



#### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for DDT recombinant protein | DDT is an enzyme that catayzes the tautomerization of D-dopachrome to give 5,6-dihydroxyindole (DHI). This protein belongs to the family of lyases, specifically the carboxy-lyases, which cleave carbon-carbon bonds. It shares a homologous amino acid sequence (33% identical) with the macrophage migration inhibitory factor (MIF) and possesses similar tautomerase activity. In addition, it may functions a proinflammatory cytokine. Recombinant human DDT, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography. |
| Product Categories/Family for DDT recombinant protein   | Enzymes & Proteases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| References                                              | Arisawa K., et al. (2009) Toxicology. 255 (1-2):6-14.; Nishihira J., et al. (1999) Biochemistry. 38 (11):3268-79.;                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

NCBI AND UNIPROT INFORMATION

|                                  |                                          |
|----------------------------------|------------------------------------------|
| NCBI GI #                        | 4503291                                  |
| NCBI GeneID                      | 1652                                     |
| NCBI Accession #                 | NP_001346                                |
| NCBI GenBank Nucleotide #        | NM_001355.3                              |
| UniProt Accession #              | P30046; O00774; O60787; Q13534; B7Z522   |
| Molecular Weight                 | 14.8 kDa (138aa), confirmed by MALDI-TOF |
| NCBI Official Full Name          | D-dopachrome decarboxylase               |
| NCBI Official Synonym Full Names | D-dopachrome tautomerase                 |
| NCBI Official Symbol             | DDT                                      |
| NCBI Official Synonym Symbols    | DDCT                                     |
| NCBI Protein Information         | D-dopachrome decarboxylase               |
| UniProt Protein Name             | D-dopachrome decarboxylase               |
| UniProt Gene Name                | DDT                                      |

**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://stage.aaabiotech.com/ddt-recombinant-protein-e-coli-sds-page/11781>