

Recombinant Human D-dopachrome Tautomerase, His-tagged

Cat. No. DDT-734H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DDT, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW = 14.8 kDa(138aa).
Species	Human
Source	E.coli
Description	DDT is an enzyme that catalyzes 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 function as a proinflammatory cytokine.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MPFLELDTNL PANRVPAGLE KRLCAAAASI LGKPADRVNV TVRPGLAMAL SGSTEPCAQL SISSIGVVG T AEDNRSHSAH FFEF LTKELA LGQDRILIRF FPLESWQIGK IGTVM TFL
Purity	> 95% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and

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store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	DDT D-dopachrome tautomerase [Homo sapiens]
Synonyms	DDT; D-dopachrome tautomerase; DDCT; D-dopachrome decarboxylase; OTTHUMP00000198529; phenylpyruvate tautomerase II; EC 4.1.1.84
Gene ID	1652
mRNA Refseq	NM_001084392
Protein Refseq	NP_001077861
MIM	602750
UniProt ID	P30046
Chromosome Location	22q11.23
Function	D-dopachrome decarboxylase activity; dopachrome isomerase activity; lyase activity; protein binding

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