

# Recombinant Human D-dopachrome Tautomerase, His-tagged

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

## SPECIFICATION

<b>Product Overview</b>	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).
<b>Species</b>	Human
<b>Source</b>	<i>E. coli</i>
<b>Description</b>	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.
<b>Sequences Of Amino Acids</b>	MGSSHHHHHH SGLVPRGSH MPFLELDTNL PANRVPAGLE KRLCAAASI LGKPADRVNV TVRPGLAMAL SGSTEPCAQL SISSIGVVG T AEDNRSHSAH FFFLTKE LA LGQDRILIRF FPLESWQIGK IGTVM TFL
<b>Purity</b>	> 95% by SDS – PAGE.
<b>Form</b>	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay).
<b>Storage</b>	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

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

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