
Product Data Sheet

Product Name: DDT Human
 Cat. No.: GP21549
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 4.1.1.84; DDCT; D-dopachrome decarboxylase; D-Dopachrome Tautomerase.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MPFLELDTNL PANRV PAGLE KRLCAAAASI LGKPADRVNV TVRPGLAMAL SGSTEPCAQL SISSIGVVGT AEDNRSHSAH FFEFLTKELA LGQDRILIRF FPLESWQIGK IGTVM TFL.		
Formulation	DDT Human solution containing 20mM Tris-HCl pH-8, & 10% glycerol.		

Introduction

DDT is an enzyme that catalyzes the tautomerization of D-dopachrome to give 5,6-dihydroxyindole (DHI). DDT is part of the family of lyases, specifically the carboxylases, which cleave carbon-carbon bonds. DDT shares a homologous amino acid sequence (33% identical) with MIF and has similar tautomerase activity. DDT functions as a proinflammatory cytokine.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

DDT Recombinant E.coli produced in E.Coli is a single, non-glycosylated polypeptide chain containing 138 amino acids (1-118 a.a.) and having a molecular mass of 14.8 kDa. The DDT is fused to a 20 amino acids His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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