

DDT Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms: MIF2;D-dopachrome decarboxylase;DDCT;D-DT;EC 4.1.1.84;D-dopachrome tautomerase; Phenylpyruvate tautomerase II

Protein Construction: Pro2-Leu118

Species: Cynomolgus

Expression Host: *E. coli*

Accession: XP_005595435.2

Molecular Weight: 13.37 kDa (predicted) same as Tris-Bis PAGE result.

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 95% as determined by Tris-Bis PAGE

Endotoxin: < 1 EU/μg by the LAL method.

Formulation: Supplied as 0.22 μm filtered solution in 50 mM Tris, 150 mM NaCl, 10% Glycerol (pH 8.0).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

Shipping with blue ice.

Protein Background

D-dopachrome tautomerase (D-DT) is a newly described cytokine and a member of the macrophage migration inhibitory factor (MIF) protein superfamily. The D-DT protein also is present in most tissues and circulates in serum at similar concentrations as MIF. D-DT binds the MIF cell surface receptor complex, CD74/CD44, with high affinity and induces similar cell signaling and effector functions.

Reference

Merk M, et al. D-dopachrome tautomerase (D-DT or MIF-2): doubling the MIF cytokine family. *Cytokine*. 2012 Jul;59(1):10-7. doi: 10.1016/j.cyto.2012.03.014. Epub 2012 Apr 14. PMID: 22507380; PMCID: PMC3367028.

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