

# Recombinant mouse DDT protein

Catalog Number: ATGP3750

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-118aa

### UniProt No.

O35215

### NCBI Accession No.

NP\_034157

### Alternative Names

D-dopachrome decarboxylase, C78655

## PRODUCT SPECIFICATION

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### Molecular Weight

15.5 kDa (141aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Ddt, also known as D-dopachrome decarboxylase, 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. Recombinant mouse Ddt, fused to His-tag at N-terminus, was

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expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSMPFVELE TNLPA SRIPA GLENRLCAAT ATILDKPEDR VSVTIRPGMT LLMNKSTEP  
CAHLLVSSIGV VGTAEQNRTH SASFFKFLTE ELSLDQDRIV IRFFPLEAWQ IGKKGTVMTF L

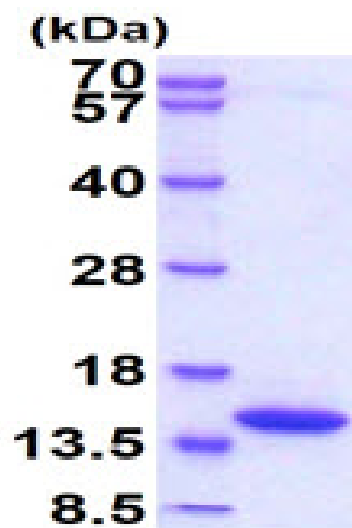
## General References

Hiyoshi M., et al. (2009) *Toxicology*. 255(1-2): 6-14.  
Sugimoto H., et al., (1999) *Biochemistry*. 38(11):3268-79.

## DATA

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### SDS-PAGE



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

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15% SDS-PAGE (3ug)