

# Recombinant human Dopa Decarboxylase/DDC protein

Catalog Number: ATGP0267

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

1-480aa

**UniProt No.**

P20711

**NCBI Accession No.**

NP\_001076440.2

**Alternative Names**

DDC, AADC, Aromatic L-amino acid decarboxylase, L-Dopa decarboxylase, Aromatic L Amino Acid Decarboxylase

## PRODUCT SPECIFICATION

**Molecular Weight**

56.4 kDa (503aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol

**Purity**

> 95% by SDS-PAGE

**Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

**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

**Description**

Dopa decarboxylase, also known as DDC, is a homodimeric, pyridoxal phosphate dependent enzyme. Dopa decarboxylase is a protein implicated in 2 metabolic pathways, synthesizing 2 important neurotransmitters: dopamine and serotonin which both play key roles in many clinical disorders, including Parkinson's disease. Dopa decarboxylase is found in different areas of the brain and is particularly abundant in basal ganglia.

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Recombinant human Dopa decarboxylase protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH TRS>MNASEFR RRGKEMVDYV ANYMEGIEGR QVYPDVEPGY LRPLIPAAAP  
QEPDTFEDII NDVEKIIMPG VTHWHSPYFF AYFPTASSYP AMLADMLCGA IGCIGFSWAA SPACTELETV MMDWLGKMLE  
LPKAFLNEKA GEGGGVIQGS ASEATLVALL AARTKVIHRL QAASPELTQA AIMEKLVAYS SDQAHSSVER AGLIGGVKLK  
AIPSDGNFAM RASALQEAL RDKAAGLIPF FMVATLGTTT CCSFDNLLEV GPICNKEDIW LHVDAAYAGS AFICPEFRHL  
LNGVEFADSF NFNPHKLLV NFDCSAMWVK KRTDLTGAFR LDPTYLKHSQ QDSGLITDYR HWQIPLGRRF RSLKMWFVFR  
MYGVKGLQAY IRKHVQLSHE FESLVRQDPR FEICVEVILG LVCFRKGSN KVNEALLQRI NSAKKIHLVP CHLRDKFVLR  
FAICSRTVES AHVQRAWHEHI KELAADVLRA ERE

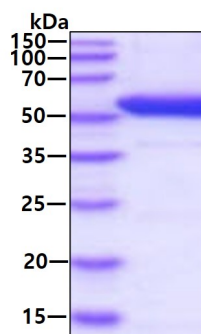
## General References

Avgeris M., et al. (2008). Clin Biochem. 41(14-15):1140-9.

Pons R., et al. (2004). Neruology. 62(7):1058-65.

## DATA

### SDS-PAGE



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