

Product information

Dopa decarboxylase, 1-480 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0267

Synonyms: DDC, AADC, Aromatic L-amino acid decarboxylase, L-Dopa decarboxylase

NCBI Accession No.: NP_001076440

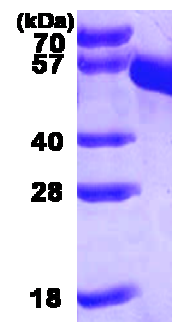
Description: Dopa decarboxylase, also known as DDC, is a homodimeric, pyridoxal phosphate dependent enzyme. Dopa decarboxylase is a protein implicated in 2 metabolic pathways, synthesizing 2 important neurotransmitters: dopamine and serotonin which both play key roles in many clinical disorders, including Parkinson's disease. Dopa decarboxylase is found in different areas of the brain and is particularly abundant in basal ganglia. Recombinant human Dopa decarboxylase protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography.

Form: Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 2mM DTT
10% glycerol.

Molecular Weight: 56.4 kDa (503aa), confirmed by MALDI-TOF

Purity: > 95% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH TRSMNASEFR RRGKEMVDYV ANYMEGIEGR QVYPDVEPGY LRPLIPAAAP QEPDTFEDI NDVEKIIMPG
VTHWHSPYFF AYFPTASSYP AMLADMLCGA IGCIGFSWAA SPACTELETV MMDWLGKMLE LPKAFLNEKA GEGGGVIQGS ASEATLVALL
AARTKVIHRL QAASPELTQA AIMEKLVAYS SDQAHSSVER AGLIGGVKLG AIPSDGNFAM RASALQEALE RDKAAGLIPF FMVATLGTIT
CCSFDNLLEV GPICNKEDIW LHVDAAYAGS AFICPEFRHL LNGVEFADSF NFNPHKLLV NFDCSAMWVK KRTDLTGAFR LDPTYLKHS
QDSSLITDYR HWQIPLGRRF RSLKMMFVFR MYGVKGLQAY IRKHVQLSHE FESLVRQDPR FEICVEVILG LVCFRLKGSN KVNEALLQRI
NSAKKIHLVP CHLRDKFVLR FAICSRTVES AHVQRAWHEI KELAADVLR ERE

General references:

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

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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.