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

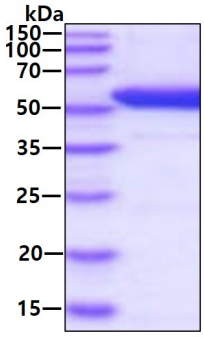
<MGSSHHHHHH SSGLVPRGSH TRS>MNASEFR RRGKEMVDYV ANYMEGIEGR QVYPDVEPGY LRPLIPAAAP QEPDTFEDII NDVEKIIMPG VTHWHSPYFF AYFPTASSYP AMLADMLCGA IGCIGFSWAA SPACTELETV MMDWLGKMLE LPKAFLNEKA GEGGGVIQGS ASEATLVALL AARTKVIHRL QAASPELTQA AIMEKLVAYS SDQAHSSVER AGLIGGVKLK AIPSDGNFAM RASALQEALE RDKAAGLIPF FMVATLGTTT CCSFDNLLEV GPICNKEDIW LHVDAAYAGS AFICPEFRHL LNGVEFADSF NFNPHKWLLV NFDCSAMWVK KRTDLTGAFR LDPTYLKHSH QDSGLITDYR HWQIPLGRRF RSLKMWFVFR MYGVKGLQAY IRKHVQLSHE FESLVRQDPR FEICVEVILG LVCFRLKGSN KVNEALLQRI NSAKKIHLVP CHLRDKFVLR FAICSRTVES AHVQRAWEHI 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.