

Product datasheet for **TP319037M**

DOPA Decarboxylase (DDC) (NM_001082971) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human dopa decarboxylase (aromatic L-amino acid decarboxylase) (DDC), transcript variant 1, 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC219037 protein sequence
Red=Cloning site **Green**=Tags(s)

MNASEFRRRGKEMVDYVANYPEGIEGRQVYPDVEPGYLRPLIPAAAPQEPDTFEDIINDVEKIIMPGVTH
WHSPYFFAYFPTASSYPAMLADMLCGAIGCIGFSWAASPACTELETVMMDWLKGMLLPKAFLEKAGEG
GGVIQGSASEATLVALLAARTKVIHRLQAASPELTQAAIMEKLVAYSSDQAHSSVERAGLIGGVKLAIP
SDGNFAMRASALQEALERDKAAGLIPFFMVATLGTTCSSFDNLLEVGPICNKEDIWLHVDAAYAGSAFI
CPEFRHLLNGVEFADSFNPNPKWLLVNFDCSAMWVKKRTDLTGAFRLDPTYLKHSHQDSGLITDYRHWQ
IPLGRRFRSLKMMWFVFRMYGVKGLQAYIRKHVQLSHEFESLVRQDPRFEICVEVILGLVCFRLKGSNKVN
EALLQRINSAKKIHLVPCHLRDKFVLRFAICSRVESAHVQRAWEHKELAADVLAERE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 53.7 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_001076440](#)

Locus ID: 1644

UniProt ID: [P20711](#), [Q53Y41](#), [A0A0S2Z3N4](#)

RefSeq Size: 2090

Cytogenetics: 7p12.2-p12.1

RefSeq ORF: 1440

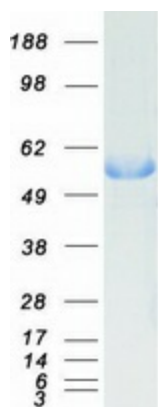
Synonyms: AADC

Summary: The encoded protein catalyzes the decarboxylation of L-3,4-dihydroxyphenylalanine (DOPA) to dopamine, L-5-hydroxytryptophan to serotonin and L-tryptophan to tryptamine. Defects in this gene are the cause of aromatic L-amino-acid decarboxylase deficiency (AADCD). AADCD deficiency is an inborn error in neurotransmitter metabolism that leads to combined serotonin and catecholamine deficiency. Multiple alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jun 2011]

Protein Families: Druggable Genome

Protein Pathways: Histidine metabolism, Metabolic pathways, Phenylalanine metabolism, Tryptophan metabolism, Tyrosine metabolism

Product images:



Coomassie blue staining of purified DDC protein (Cat# [TP319037]). The protein was produced from HEK293T cells transfected with DDC cDNA clone (Cat# [RC219037]) using MegaTran 2.0 (Cat# [TT210002]).