

Recombinant Full Length Human DDC Protein, C-Flag-tagged

Cat. No. DDC-1314HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DDC Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	53.7 kDa
AA Sequence	MNASEFRRRGKEMVDYVANYMEGIEGRQVYPDVEPGYLRPLIPAAAPQEPDTFEDII NDVEKIIMPGVTH WHSPYFFAYFPTASSYPAMLADMLCGAIGCIGFSWAASPACTEL ETVMMDWLKGKMLELPKAFLNEKAGEG GGVIQGSASEATLVALLAARTKVIHRLQAA SPELTQAAMEKLVAYSSDQAHSSVERAGLIGGVKLKAIP SDGNFAMRASALQEAL RDKAAGLIPFFMVATLGTTCCTCCSFDNLLEVGPICNKEDIWLHVDAAYAGSAFI CPEFR HLLNGVEFADSFNPNPHKWLLVNFDCSAMWVKKRTDLTGAFRLDPTYLKHS HQDS

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GLITDYRHWQ IPLGRRFRSLKMWFVFRMYGVKGLQAYIRKQVLSHEFESLVRQDP
RFEICVEVILGLVCFRLKGSNKVN
EALLQRINSAKKIHLVPCHLRDKFVLRFAICSRVESAHVQRAWHEHIKELAADVLRAE
RETRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Histidine metabolism, Metabolic pathways, Phenylalanine metabolism, Tryptophan metabolism, Tyrosine metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	DDC dopa decarboxylase [Homo sapiens (human)]
Official Symbol	DDC
Synonyms	AADC

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Gene ID	1644
mRNA Refseq	NM_000790.4
Protein Refseq	NP_000781.2
MIM	107930
UniProt ID	P20711



Coomassie blue staining of purified DDC protein.