

Recombinant Human DDC Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DDC-3118H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DDC MS Standard C13 and N15-labeled recombinant protein (NP_000781) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	53.9 kDa
AA Sequence	MNASEFRRRGKEMVDYVANVMIEGIEGRQVYVPDVEPGYLRPLIPAAAPQEPDTFEDII NDVEKIIMPGVTHWHSPYFFAYFPTASSYPAMLADMLCGAIGCIGFSWAASPACTEL ETVMMDWLKGKMLELPKAFLEKAGEGGGVIQGSASEATLVALLAARTKVIHRLQAA SPELTQAAMEKLVAYSSDQAHSSVERAGLIGGVKKAIPSDGNFAMRASALQEALE RDKAAGLIPFFMVATLGTTCSSFDNLLEVGPICNKEDIWLHVDAAYAGSAFICPEFR HLLNGVEFADSFNPNPKWLLVNFDCSAMWVKKRTDLTGAFRLDPTYLKHSQDS

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GLITDYRHWQIPLGRRFRSLKMWFVFRMYGVKGLQAYIRKHVQLSHEFESLVRQDP
RFEICVEVILGLVCFRLKGSNKVNEALLQRINSAKKIHLVPCHLRDKFVLRFAICSRV
ESAHVQRAWHEHIKELAADVLRARERTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name DDC dopa decarboxylase [Homo sapiens (human)]

Official Symbol DDC

Synonyms DDC; dopa decarboxylase (aromatic L-amino acid decarboxylase); aromatic-L-amino-acid decarboxylase; AADC;

Gene ID 1644

mRNA Refseq NM_000790

Protein Refseq NP_000781

MIM 107930

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UniProt ID

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