

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

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human DDC Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	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.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	53.7 kDa
<b>AA Sequence</b>	MNASEFRRRGKEMVDYVAN YMEGIEGRQVYPDVEPGYLRPLIPAAAPQEPDTFEDII NDVEKIIMPGVTH WHSPYFFAYFPTASSYPAMLADMLCGAIGCIGFSWAASPACTEL ETVMMDWLKGKMLELPKAFLEKAGEG GGVIQGSASEATLVALLAARTKVIHRLQAA SPELTQAAMEKLVAYSSDQAHSVERAGLIGGVKKAIP SDGNFAMRASALQEAL RDKAAGLIPFFMVATLGTTCSSFDNLLEVGPICNKEDIWLHVDAAYAGSAFI CPEFR HLLNGVEFADSFNPNPKWLLVNFDCSAMWVKKRDLTGAFRLDPTYLKHS HQDS

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GLITDYRHWQ IPLGRRFRSLKMWFVFRMYGVKGLQAYIRKQVLSHEFESLVRQDP  
 RFEICVEVILGLVCFRLKGSNKVN  
 EALLQRINSAKKIHLVPCHLRDKFVLRFAICSRVESAHVQRAWHEHIKELAADVLRAE  
 RETRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

## GENE INFORMATION

<b>Gene Name</b>	DDC dopa decarboxylase [ Homo sapiens (human) ]
<b>Official Symbol</b>	DDC
<b>Synonyms</b>	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.

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