

Recombinant Human DDC

Cat. No. DDC-28085TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein (Human)
Species	Human
Source	E.coli
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	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 50mM Tris acetate, 1mM EDTA, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the group II decarboxylase family.

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Full Length
Full L.

GENE INFORMATION

Gene Name	DDC dopa decarboxylase (aromatic L-amino acid decarboxylase) [Homo sapiens]
Official Symbol	DDC
Synonyms	DDC; dopa decarboxylase (aromatic L-amino acid decarboxylase); aromatic-L-amino-acid decarboxylase; AADC;
Gene ID	1644
mRNA Refseq	NM_001242889
Protein Refseq	NP_001229818
MIM	107930
Uniprot ID	P20711
Chromosome Location	7p11
Pathway	Amine-derived hormones, organism-specific biosystem; Biogenic Amine Synthesis, organism-specific biosystem; Catecholamine biosynthesis, organism-specific biosystem; Catecholamine biosynthesis, tyrosine => dopamine =>
Function	amino acid binding; aromatic-L-amino-acid decarboxylase activity; aromatic-L-amino-acid decarboxylase activity; lyase activity; protein binding;

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