

Recombinant Full Length Human DDC Protein, GST-tagged

Cat. No. DDC-2428HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DDC full-length ORF (AAH08366, 1 a.a. - 480 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	480 amino acids
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. [provided by RefSeq, Jun 2011]
Molecular Mass	78.43 kDa
AA Sequence	MNASEFRRRGKEMVDYVANVMIEGIEGRQVYPDVEPGYLRPLIPAAAPQEPDTFEDII NDVEKIIMPGVTHWHSPYFFAYFPTASSYPAMLADMLCGAIGCIGFSWAASPACTEL ETVMMDWLKGKMLELPKAFLNEKAGEGGGVIQGSASEATLVALLAARTKVIHRLQAA SPELTQAAMEKLVAYSSDQAHSSVERAGLIGGVKLKAIPSDGNFAMRASALQEAL RDKAAGLIPFFMVATLGTTCSSFDNLLEVGPICNKEDIWLHVDAAYAGSAFICPEFR HLLNGVEFADSFNPNPHKWLLVNFDCSAMWVKKRTDLTGAFRLDPTYLKHS HQDS

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GLITDYRHWQIPLGRRFRSLKMWFVFRMYGVKGLQAYIRKHVQLSHEFESLVRQDP
RFEICVEVILGLVCFRLKGSNKNVNEALLQRINSAKKIHLVPCHLRDKFVLRFAICSRTV
ESAHVQRAWEHKELAADVLRARE

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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_000790

Protein Refseq

NP_000781

MIM

107930

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UniProt ID

P20711

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