

Recombinant Human AADC Protein, His-tagged

Cat. No. AADC-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AADC Protein with His tag was expressed in E. coli.
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.
Molecular Mass	48.64 kDa
AA Sequence	MNASEFRRRGKEMVDYVANYMEGIEGRQVYPDVEPGYLRPLIPAAAPQEPDTFEDII NDVEKIIMPGVTHWHSPYFFAYFPTASSYPAMLADMLCGAIGCIGFSWAASPACTEL ETVMMDWLGLKMLELPKAFLNEKAGEGGGVIQGSASEATLVALLAARTKVIHRLQAA SPELTQAAIMEKLVAYSSDQMVATLGTTCCTCFDNLLEVGPICNKEDIWLHVDAAYA GSAFICPEFRHLLNGVEFADSFNPNPHKWLLVNFDCSAMWVKKRTDLTGAFRLDPT YLKHSQDQSLITDYRHWQIPLGRRFRSLKMWFVFRMYGVKGLQAYIRKQVQLSHE FESLVRQDPRFEICVEVILGLVCFRLKGSNKVNEALLQRINSAKKIHLVPCHLRDKFVL RFAICSRVESAHVQRAWHEIKHHHHHHHH

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Purity	> 85% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.5 mg/mL
Storage Buffer	PBS, pH 7.4

GENE INFORMATION

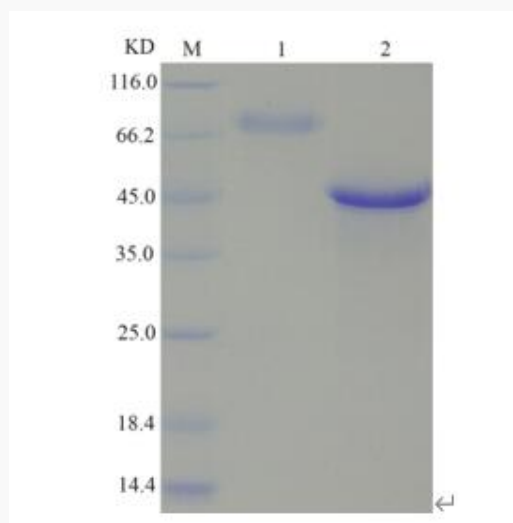
Gene Name	DDC dopa decarboxylase [Homo sapiens (human)]
Official Symbol	DDC
Synonyms	DDC; dopa decarboxylase; AADC; aromatic-L-amino-acid decarboxylase; dopa decarboxylase (aromatic L-amino acid decarboxylase); EC 4.1.1.28
Gene ID	1644
mRNA Refseq	NM_000790
Protein Refseq	NP_000781
MIM	107930

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SDS-PAGE

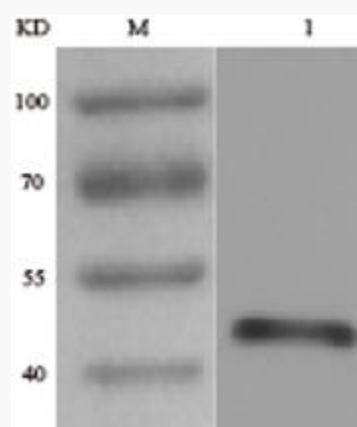


M: Protein ladder

1: 0.5 mg/mL BSA

2: Purified protein

WB



M: Protein ladder

1: Purified protein