

Dopa Decarboxylase Recombinant Protein | DDC recombinant protein

Recombinant Human Dopa Decarboxylase

CATALOG #
AAA38670HOST
E Coli

PRODUCT SYNONYMS

Dopa Decarboxylase; Recombinant Human Dopa Decarboxylase; Dopa Decarboxylase Human; Dopa Decarboxylase Human Recombinant; DDC; AADC; Aromatic-L-amino-acid decarboxylase; DOPA decarboxylase; DDC recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The Dopa decarboxylase protein solution contains 20mM Tris-HCl, pH-8, 2mM DTT and 10% glycerol. Sterile filtered colorless solution.
Sequence	MGSSHHH HHHSSGLVPR GSHTRS MNASEFRRRG KEMVDYVANY MEGIEGRQVY PDVEPGYLRP LIPAAAPQEP DTFEDIINDV EKIIMPGVTH WHSPYFFAYF PTASSYPAML ADMLCGAIGC IGFSWAASPA CTELETVMMD WLGMLELPK AFLNEKAGEG GGVIQGSASE ATLVALLAAR TKVIHRLQAA SPELTQAAM EKLVAYSSDQ AHSSVERAGL IGGVKLKAIP SDGNFAMRAS ALQEALERDK AAGLIPFFMV ATLGTTTCCS FDNLLEV GPI CNKEDIWLHV DAAYAGSAFI CPEFRHLLNG VEFADSFNFN PHKWLLVNFD CSAMWVKKRT DLTGAFRLDP TYLKHS HQDS GLITDYRHWQ IPLGRRFRSL KMWFVFRMYG VKGLQAYIRK HVQLSHEFES LVRQDPRFEI CVEVILGLVC FRLKGSNKVN EALLQRINSA KKIHLVPCHL RDKFVLRFAI CSRTVESAHV QRAWHEHIKEL AADVLAERE
Sequence Length	480
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for DDC recombinant protein	Description: Dopa decarboxylase human recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 503 amino acids (1-480 a.a.) and having a molecular mass of 56.4 kDa. The Dopa decarboxylase is fused to 23 amino acid His Tag at N-terminus and purified by conventional chromatography. Introduction: Dopa decarboxylase is a homodimeric, pyridoxal phosphate dependent enzyme. Dopa decarboxylase is involved in 2 metabolic pathways, synthesizing 2 significant neurotransmitters: dopamine and serotonin which both take part in numerous clinical disorders, including Parkinson's disease. Dopa decarboxylase is located in different areas of the brain and is mostly found in basal ganglia. Dopa decarboxylase catalyzes the decarboxylation of L-3,4-dihydroxyphenylalanine (DOPA) to dopamine, L-5-hydroxytryptophan to serotonin and L-tryptophan to tryptamine. Defects in Dopa decarboxylase leads to aromatic L-amino-acid decarboxylase deficiency (AADCD). AADCD deficiency is an inborn error in neurotransmitter metabolism that causes combined serotonin and catecholamine deficiency.
Product Categories/Family for DDC recombinant protein	Enzymes; Decarboxylase

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503281
NCBI GeneID	1644

NCBI Accession #	NP_000781.1
NCBI GenBank Nucleotide #	NM_000790.3
UniProt Accession #	P20711 ; Q16723 ; Q5W5T9 ; Q75MJ6 ; C9IYA0 ; E7ER62 ; E7EU95
Molecular Weight	44,239 Da
NCBI Official Full Name	aromatic-L-amino-acid decarboxylase isoform 1
NCBI Official Synonym Full Names	dopa decarboxylase (aromatic L-amino acid decarboxylase)
NCBI Official Symbol	DDC
NCBI Official Synonym Symbols	AADC
NCBI Protein Information	aromatic-L-amino-acid decarboxylase
UniProt Protein Name	Aromatic-L-amino-acid decarboxylase
UniProt Gene Name	DDC
UniProt Synonym Gene Names	AADC; AADC; DDC
UniProt Entry Name	DDC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ddc-recombinant-protein-e-coli/38670>