Recombinant Human Aromatic-L-amino-acid decarboxylase (DDC)

Product Code	CSB-BP006583HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P20711
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MNASEFRRRG KEMVDYMANY MEGIEGRQVY PDVEPGYLRP LIPAAAPQEP DTFEDIINDV EKIIMPGVTH WHSPYFFAYF PTASSYPAML ADMLCGAIGC IGFSWAASPA CTELETVMMD WLGKMLELPK AFLNEKAGEG GGVIQGSASE ATLVALLAAR TKVIHRLQAA SPELTQAAIM EKLVAYSSDQ AHSSVERAGL IGGVKLKAIP SDGNFAMRAS ALQEALERDK AAGLIPFFMV ATLGTTTCCS FDNLLEVGPI CNKEDIWLHV DAAYAGSAFI CPEFRHLLNG VEFADSFNFN PHKWLLVNFD CSAMWVKKRT DLTGAFRLDP TYLKHSHQDS GLITDYRHWQ IPLGRRFRSL KMWFVFRMYG VKGLQAYIRK HVQLSHEFES LVRQDPRFEI CVEVILGLVC FRLKGSNKVN EALLQRINSA KKIHLVPCHL RDKFVLRFAI CSRTVESAHV QRAWEHIKEL AADVLRAERE
Source	Baculovirus
Target Names	DDC
Protein Names	Recommended name: Aromatic-L-amino-acid decarboxylase Short name= AADC EC= 4.1.1.28 Alternative name(s): DOPA decarboxylase Short name= DDC
Expression Region	1-480
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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. Two transcript variants encoding the same protein have been identified for this gene.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final

	concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.