



**Synonym**

Aromatic-L-amino-acid decarboxylase, Dopa decarboxilase, AADC

**Source**

Human DDC, His Tag (DDC-H55H6) is expressed from Baculovirus-Insect cells.

It contains AA Met 1 - Glu 480 (Accession # [P20711-1](#)).

Predicted N-terminus: Met 1

**Molecular Characterization**

DDC(Met 1 - Glu 480)  
P20711-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 55.8 kDa. The protein migrates as 53-58 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method / rFC method.

**Purity**

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

**Formulation**

Supplied as 0.2 µm filtered solution in 25 mM MES, 150 mM NaCl, pH6.0 with glycerol as protectant.

Contact us for customized product form or formulation.

**Shipping**

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

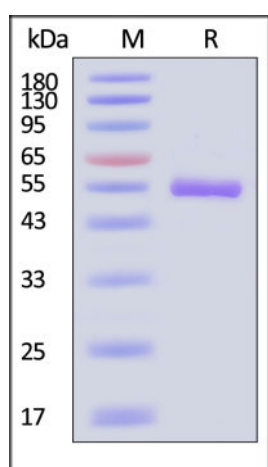
**Storage**

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

**SDS-PAGE**

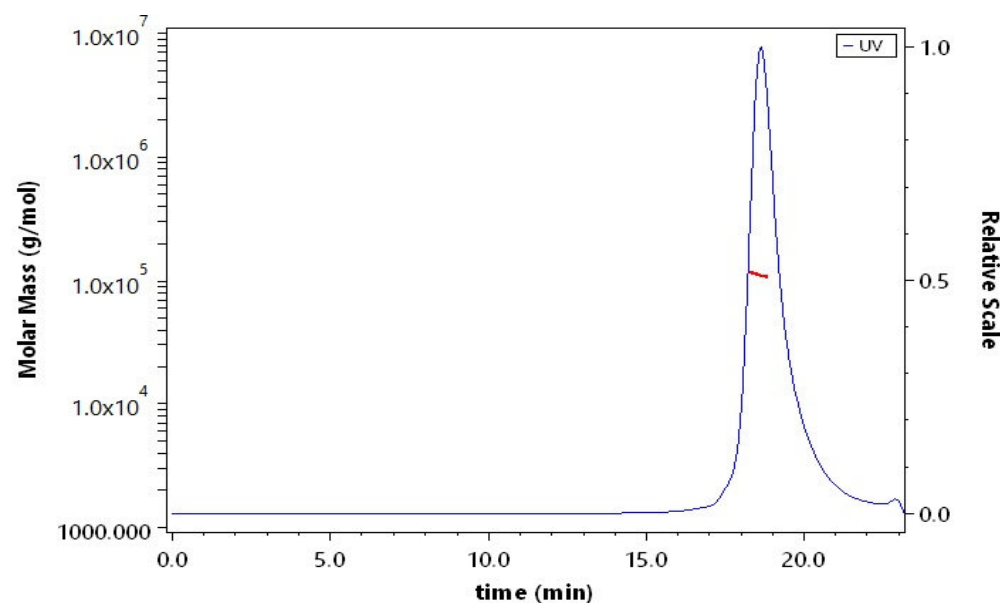


Human DDC, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

**Bioactivity**

Measured by its ability to convert the substrate 3, 4dihydroxy Lphenylalanine (LDopa) to 3, 4dihydroxyphenylethylamine (dopamine). The dopamine product is measured by its absorbance at 340 nm after derivatization with

**SEC-MALS**



The purity of Human DDC, His Tag (Cat. No. DDC-H55H6) is more than 95% and the molecular weight of this protein is around 100-125 kDa verified by SEC-MALS.

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## Human DDC / Dopa Decarboxilase Protein, His Tag (MALS verified)

Catalog # DDC-H55H6



BIOSYSTEMS  
**Acro**

trinitrobenzene sulfonic acid. The specific activity is >1000 pmol/min/μg (QC tested).

### Background

Dopa decarboxilase (DDC), also known as aromatic amino acid decarboxylase, is a group II decarboxylase. The enzyme catalyzes the decarboxylation of aromatic L-amino acids to produce the corresponding amines. DDC produces the neurotransmitters dopamine and serotonin from L-Dopa and L-5-hydroxytryptophan, respectively. DDC inhibitors is in clinical use to treat Parkinson's disease(PD), usually co-administrated with L-DOPA. DDC would block peripheral conversion to dopamine and allow a greater percentage of L-DOPA to reach the brain, causing an increase in brain dopamine levels, and reducing the side effects of dopamine-rich blood.

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