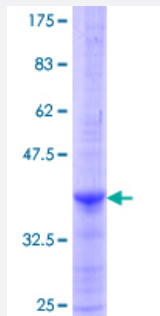


DDC (Human) Recombinant Protein (Q01)

Catalog # H00001644-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human DDC partial ORF (NP_000781.1, 371 a.a. - 480 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	VKGLQAYIRKHHVQLSHEFESLVRQDPRFEICVEVILGLVCFRLKGSNKVNEALLQRINSAKKIHLVP CHLRDKFVLRFAICSRTVESAHVQRAWHEHIKELAADVLRARE
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — DDC

Entrez GeneID [1644](#)

GeneBank Accession# [NM_000790](#)

Protein Accession# [NP_000781.1](#)

Gene Name DDC

Gene Alias AADC

Gene Description dopa decarboxylase (aromatic L-amino acid decarboxylase)

Omim ID [107930 608643](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations L-Dopa decarboxylase|aromatic L-amino acid decarboxylase

Pathway

- [Betain biosynthesis](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Histidine metabolism](#)

- [Isoquinoline alkaloid biosynthesis](#)
- [Metabolic pathways](#)
- [Phenylalanine metabolism](#)
- [Tryptophan metabolism](#)
- [Tyrosine metabolism](#)

Disease

- [Anorexia Nervosa](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Bulimia](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Ductus Arteriosus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Infant](#)
- [Mental Disorders](#)
- [Migraine Disorders](#)
- [NARP](#)
- [Obesity](#)

- [Ovarian Failure](#)
- [Personality Assessment](#)
- [Polycystic Ovary Syndrome](#)
- [Psychiatric Status Rating Scales](#)
- [Psychological Tests](#)
- [Puberty](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Sensation](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)