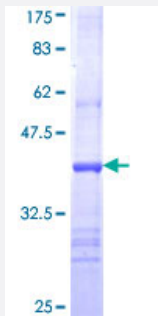


CHAT (Human) Recombinant Protein (Q01)

Catalog # H00001103-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CHAT partial ORF (NP_065574, 649 a.a. - 748 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSNRFVLSTSQVPTTTEMFCCYGPVVPNGYGACYNPQPETILFCISSFHCKETSSSKFAKAVEE SLIDMRDLCSSLPPTESKPLATKEKATRPSQGHQP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (75); Rat (79)
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 — CHAT

Entrez GeneID	1103
GeneBank Accession#	NM_020549
Protein Accession#	NP_065574
Gene Name	CHAT
Gene Alias	CMS1A, CMS1A2
Gene Description	choline acetyltransferase
Omim ID	118490 254210
Gene Ontology	Hyperlink
Gene Summary	This gene encodes an enzyme which catalyzes the biosynthesis of the neurotransmitter acetylcholine. This gene product is a characteristic feature of cholinergic neurons, and changes in these neurons may explain some of the symptoms of Alzheimer disease. Mutations in this gene are associated with congenital myasthenic syndrome associated with episodic apnea. Multiple transcript variants encoding different isoforms have been found for this gene, and some of these variants have been shown to encode more than one isoform. [provided by RefSeq]
Other Designations	OTTHUMP00000019583 OTTHUMP00000019584 acetyl CoA:choline O-acetyltransferase

Pathway

- [Glycerophospholipid metabolism](#)

Disease

- [Alzheimer disease](#)
- [Amnesia](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Mental Disorders](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Neuropsychological Tests](#)
- [Osteoporosis](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)