

Full-Length

CHAT (Human) Recombinant Protein (P01)

Catalog # H00001103-P01

Size 50 ug

Specification

Product Description	Human CHAT full-length ORF (ADR83068.1, 1 a.a. - 630 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAAKTPSSEESGLPKLPVPPLQQTLATYLQCMRHLVSEEQFRKSQAMVQQFGAPGGLGETLQQK LLERQEK TANWVSEYWLNDMYLNNRLALPVNSSPAVIFARQHFP GTDDQLRFAASLISGVLSYKA LLDSHSIPTDCAKGQLSGQPLCMKQYYGLFSSYRLPGHTQDTLVAQNSSIMPEPEHVIVACCNQF FVL DVVINFRRLSEGDLFTQLRKIVKMASNEDERLPPIGLLTSDGRSEWAEARTVLVKDSTNRDSL DMIERCICLVCLDAPGGVELSDTHRALQLLHGGGYSKNGANRWYDKSLQFVVGRDGTGCVVCEH SPFDGMLVQCTEHLKHM TQSSRKLIRADS VSELPAPRRLRWKCSPEIQGHLASSAEKLQRVKN LDFIVYKFDNYGKTFIKKQKCSPDAFIQVALQLAFYRLHRRLVPTYESASIRRFQEGRVDNIRSATPE ALAFVRAVTDHKA AVPA SEKLLLLKDAIRAQTAYTVMAITGM AIDNHLALRELARAMCKELPEMF MDETYLMSNRFVLSTS QVPTTTEM FCCYGPVVPNGYGACYNPQPETILFCISSFH SCKETSSSKF AKAVEESLIDMRDLC SLLPPTESKPLATKEKATRPSQGHQP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	69.3
Interspecies Antigen Sequence	Mouse (88); Rat (89)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
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# [HQ258314.1](#)

Protein Accession# [ADR83068.1](#)

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](#)