

Recombinant Human CHAT protein, GST-tagged

Cat. No. CHAT-176H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHAT(1 a.a. - 630 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1 a.a. - 630 a.a.
Description	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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	69.3 kDa
AA Sequence	MAAKTPSSEESGLPKLPVPPLQQTLATYLCMRHLVSEEQFRKSQAIVQQFGAPGG LGETLQQKLLERQEKTANW VSEYWLNDMYLNNRLALPVNSSPAVIFARQHFPGTD DQLRFAASLISGVLSYKALLDSHSIPTDCAKGQLSGQPL CMKQYYGLFSSYRLPGHT QDTLVAQNSSIMPEPEHVIVACCNQFFVLDVVINFRRLSEGDLFTQLRKIVKMASNE

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DERLPPIGLLTSDGRSEWAEARTVLVKDSTNRDSLDMIERCICLVCLDAPGGVELSD
 THRALQLLHGGGYSKNGA NRWYDKSLQFVVGRDGTGCGVVCEHSPFDGIVLVQCTE
 HLLKHMTQSSRKLIRADSVSELPAPRRLRWKCSPEIQG HLAESAELQQRIVKNLDFIV
 YKFDNYGKTFIKKQKCSPDAFIQVALQLAFYRLHRRLLVPTYESASIRRFQEGRVD NIR
 SATPEALAFVRAVTDHKAAPASEKLLLLKDAIRAQTAYTVMITGMAIDNHLLALREL
 ARAMCKELPEMFM DETYLMSNRFLVSTSQVPTTTEMFCCYGPVVPNGYGACYNP
 QPETILFCISSFHCKETSSSKFAKAVEESLIDM RDLCSLLPPTESKPLATKEKATRP
 SQGHQP

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

CHAT choline O-acetyltransferase [Homo sapiens]

Official Symbol

CHAT

Synonyms

CHAT; choline O-acetyltransferase; choline acetyltransferase; choline acetylase;
 acetyl CoA:choline O-acetyltransferase; CMS1A; CMS1A2; CHOACTASE;

Gene ID

1103

mRNA Refseq

NM_020549

Protein Refseq

NP_065574

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MIM	118490
UniProt ID	P28329
Chromosome Location	10q11.2
Pathway	Acetylcholine Neurotransmitter Release Cycle, organism-specific biosystem; Acetylcholine Synthesis, organism-specific biosystem; Biogenic Amine Synthesis, organism-specific biosystem; Cholinergic synapse, organism-specific biosystem; Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Neuronal System, organism-specific biosystem;
Function	choline O-acetyltransferase activity; choline binding; transferase activity, transferring acyl groups;

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