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	MAAKTPSSEESGLPKLPVPPLQQTLATYLQCMRHLVSEEQFRKSQAIVQQFGAPGG LGETLQQKLLERQEKTANW VSEYWLNDMYLNNRLALPVNSSPAVIFARQHFPGTD DQLRFAASLISGVLSYKALLDSHSIPTDCAKGQLSGQPL CMKQYYGLFSSYRLPGHT QDTLVAQNSSIMPEPEHVIVACCNQFFVLDVVINFRRLSEGDLFTQLRKIVKMASNE

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	DERLPPIGLLTSDGRSEWAEARTVLVKDSTNRDSLDMIERCICLVCLDAPGGVELSD THRALQLLHGGGYSKNGA NRWYDKSLQFVVGRDGTCGVVCEHSPFDGIVLVQCTE HLLKHMTQSSRKLIRADSVSELPAPRRLRWKCSPEIQG HLASSAEKLQRIVKNLDFIV YKFDNYGKTFIKKQKCSPDAFIQVALQLAFYRLHRRLVPTYESASIRRFQEGRVD NIR SATPEALAFVRAVTDHKAAVPASEKLLLLKDAIRAQTAYTVMAITGMAIDNHLLALREL ARAMCKELPEMFM DETYLMSNRFVLSTSQVPTTTEMFCCYGPVVPNGYGACYNP QPETILFCISSFHSCKETSSSKFAKAVEESLIDM 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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