

Recombinant Human CHAT protein, GST-tagged

Cat. No. CHAT-177H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHAT(649 a.a. - 748 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	649 a.a. - 748 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	36.74 kDa
AA Sequence	MSNRFVLSTSQVPTTTEMFCCYGPVVPNGYGACYNPQPETILFCISSFHCKETSSS KFAKAVEESLIDMRDLCS LLPPTESKPLATKEKATRPSQGHQP
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);

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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

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

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metabolism, conserved biosystem; Neuronal System, organism-specific biosystem;

Function

choline O-acetyltransferase activity; choline binding; transferase activity, transferring acyl groups;

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