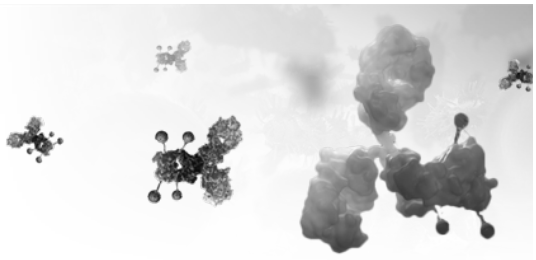

Rat CHAT peptide (DAG-P0294)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Defects in CHAT are the cause of congenital myasthenic syndrome with episodic apnea (CMSEA) [MIM:254210]; formerly known as familial infantile myasthenia gravis 2 (FIMG2). CMSEA is an autosomal recessive congenital myasthenic syndrome. Patients have myasthenic symptoms since birth or early infancy, negative tests for anti-AChR antibodies, and abrupt episodic crises with increased weakness, bulbar paralysis, and apnea precipitated by undue exertion, fever, or excitement.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the carnitine/choline acetyltransferase family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	Chat choline O-acetyltransferase [Rattus norvegicus (Norway rat)]
Official Symbol	CHAT
Synonyms	CHAT; choline O-acetyltransferase; CHOACTase; choline acetylase; choline acetyltransferase;
Entrez Gene ID	290567
mRNA Refseq	NM_001170593.1

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Protein Refseq	NP_001164064.1
Chromosome Location	16p16
Pathway	Acetylcholine Neurotransmitter Release Cycle, organism-specific biosystem; Biogenic Amine Synthesis, organism-specific biosystem; Cholinergic synapse, organism-specific biosystem; Glycerophospholipid biosynthesis, organism-specific biosystem; Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Neuronal System, organism-specific
Function	choline O-acetyltransferase activity; choline O-acetyltransferase activity; choline O-acetyltransferase activity; choline O-acetyltransferase activity; choline binding;

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