

Recombinant Rat Choline O-Acetyltransferase

Cat. No. Chat-1836R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Chat was expressed in Escherichia coli.
Species	Rat
Source	E.coli
Description	Chat is a recombinant protein corresponding to rat Choline Acetyltransferase (Chat), an enzyme that catalyzes the reversible synthesis of acetylcholine (ACh) from acetyl CoA and choline at cholinergic synapses.
Form	Purified recombinant Chat - liquid.
Application	Immunohistology -Frozen
Preparation	Purified recombinant rat choline acetyltransferase expressed in Escherichia coli.
Concentration	Total protein concentration 0.25 mg/ml.
Storage	Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

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Gene Name	Chat choline O-acetyltransferase[Rattus norvegicus]
Official Symbol	Chat
Synonyms	Chat; choline O-acetyltransferase; choline O-acetyltransferase; CHOACTase;choline acetylase; choline acetyltransferase
Gene ID	290567
mRNA Refseq	NM_001170593
Protein Refseq	NP_001164064
Chromosome Location	16p16
Pathway	AcetylcholineNeurotransmitter Release Cycle; Biogenic Amine Synthesis; Cholinergicsynapse; Glycerophospholipid metabolism; Neurotransmitter Release Cycle;Synaptic Transmission; Transmission across Chemical Synapses
Function	choline O-acetyltransferaseactivity; choline binding; transferase activity, transferring acyl groups