

Active Native Pigeon Carnitine Acetyltransferase

Cat. No. CrAT-01P Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Native purified Pigeon Carnitine Acetyltransferase
Species	Pigeon
Source	Breast muscle
Description	Catalyzes the reversible transfer of acyl groups from carnitine to coenzyme A (CoA) and regulates the acyl-CoA/CoA ratio. Also plays a crucial role in the transport of fatty acids for beta-oxidation. Responsible for the synthesis of short- and branched-chain acylcarnitines. Active towards some branched-chain amino acid oxidation pathway (BCAAO) intermediates. Trans-2-enoyl-CoAs and 2-methylacyl-CoAs are poor substrates.
CAS No.	9029-90-7
Bio-activity	80 U/mg protein
Purity	≥95% by SDS-PAGE
Unit Definition	One unit will convert 1.0 μmole of acetyl-L-carnitine and CoA to L-carnitine and acetyl-CoA per min at pH 8.0 at 25 centigrade.
Storage	Store at -20 centigrade for 2 years.
Concentration	1.2 mg/mL

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GENE INFORMATION

Gene Name	CRAT carnitine O-acetyltransferase [Columba livia (rock pigeon)]
Official Symbol	CRAT
Synonyms	CRAT; carnitine O-acetyltransferase; CAT; carnitine O-acetyltransferase; Carnitine acetylase; carnitine acetyltransferase; EC 2.3.1.137; EC 2.3.1.7
Gene ID	102084317
mRNA Refseq	NM_001282839
Protein Refseq	NP_001269768
UniProt ID	P52826

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