

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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