Creative Enzymes®

Acetyl-L-carnitine chloride

Cat. No. COEC-005

Lot. No. (See product label)

Introduction

Description	Endogenous mitochondrial metabolite that transports acetyl groups across the mitochondrial membrane. Exogenous acetylcarnitine enhances mitochondrial function in aged rats. As an acetate donor to coenzyme A, it increases the central and peripheral acetylcholine synthesis and function. Acetylcarnitine has antinociceptive activity that may be mediated by enhanced activity of muscarinic cholinergic receptors or mGlu2 glutamate receptors.
Applications	A cholinergic agonist that stimulates neuronal response to serotonin and acetylcholine
Synonyms	R-(-)-2-Acetyloxy-3-carboxy-N,N,N-trimethyl-1-propanaminium chloride

Product Information

Form	Solid
CAS No.	5080-50-2
Molecular Formula	C9H18NClO4
Molecular Weight	239.7
Purity	≥99%
Melting Point	194° C (dec.)
Solubility	Soluble in water (100 mg/ml), alcohol, and ethanol (10%). Insoluble in ether.