

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

C₉H₁₈NCIO₄

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.