Creative Enzymes®

5-Hydroxydecanoate sodium salt

Cat. No. CSUB-0714

Lot. No. (See product label)

Introduction

Description	5-Hydroxydecanoate Na (5-HD) is a substrate for mitochondrial outer membrane ACSL (acyl-CoA synthetase) that inhibits ATP-sensitive K+ channels. In neuronal type K sensitive ATP channel currents, 5-Hydroxydecanoate Na diminished the produced activation of the channels by PKG. On perfused rat hearts, 5-Hydroxydecanoate Na has shown the ability to inhibit the toxicity of 6-hyrdoxydopamine on dopaminergic neurons. 5-Hydroxydecanoate Na has displayed a lack of activity in inhibiting oxygen consuming mitochondria derived from skeletal muscle.
Applications	An inhibitor of ATP-sensitive K+ channels
Synonyms	5-Hydroxycapric acid sodium salt; 5-Hydroxydecanoic acid sodium salt

Product Information

Form	Solid
CAS No.	71186-53-3
Molecular Formula	C10H19O3•Na
Molecular Weight	210.25
Purity	>98%
Melting Point	154-155° C
Solubility	Soluble in water (25 mg/ml), and ethanol (10 mg/ml).
Substrates	β-D-galactosidase

Storage and Shipping Information

Storage	Store at -20° C