Creative Enzymes®

9(Z)-Octadecenedioic Acid

Cat. No. OAGZ-0002

Lot. No. (See product label)

Introduction

Description	9(Z)-Octadecenedioic acid is an 18-carbon alpha,omega-unsaturated dicarboxylic acid containing a cis double bond at carbon 9.
Applications	Organic synthesis; pharmaceutical intermediate development; biochemical studies; polymer and specialty-material research.
Synonyms	Octadecenedioic Acid; cis-9-Octadecenedioic Acid; C18:1 Dicarboxylic Acid; (9Z)-Octadec-9-enedioic Acid

Product Information

Source	Fermentation-derived long-chain dicarboxylic acid produced through omega-oxidation of oleic acid.
Appearance	Pale yellow to white solid powder
Form	Solid powder
CAS No.	20701-68-2
Molecular Formula	$C_{18}H_{32}O_4$
Chemical Name	(9Z)-Octadec-9-enedioic acid
Molecular Weight	312.44 g/mol
Purity	≥98%
Structure	HO_2C-$(CH_2)_7$-CH=CH-$(CH_2)_7$-CO_2H (cis-9 configuration)
Function	Serves as a bifunctional long-chain intermediate containing two carboxyl groups and one internal unsaturated bond.
Melting Point	96-102°C
Solubility	DMSO: 100 mg/mL
Quality	Identity conforms by ^1H NMR; loss on drying ≤0.5%.
Notes	INCI name: OCTADECENEDIOIC ACID UNII: 565ZMT5QRG InChIKey: SBLKVIQSIHEQOF-UPHRSURJSA-N
Usage	For use as a long-chain unsaturated dicarboxylic acid intermediate in research, organic synthesis, and materials development.

Usage and Packaging

Package	5 g; 25 g; 100 g; 500 g; 1 kg+

Storage and Shipping Information

Storage	Keep tightly sealed in a cool, dry place. For long-term storage, store at -20°C.
Stability	Stable solid under normal storage and handling conditions

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