



Palmitoleic acid alkyne

Cat. No.:	OB0626WX-1808
Appearance:	Liquid
Purity:	≥95%
Identity:	Confirmed by NMR, TLC, and HPLC.
Size:	100 µg; 500 µg; 1 mg; 5 mg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Palmitoleic acid alkyne is an ω-terminally modified analog of palmitoleic acid designed with a functional alkyne handle to facilitate bioorthogonal click chemistry workflows. This structural tool is primarily utilized to profile and monitor cellular protein palmitoylation dynamics, demonstrating specific stereoselective labeling of both intracellular and secreted forms of wild-type Wnt ligands.
Formulation	Ethanol solution (1 mg/mL)
Synonyms	(9Z)-9-hexadecen-15-ynoic acid; FA 16:3; 9-cis-Hexadecanoic Acid Alkyne; n-7 Palmitoleate Alkyne; Palmitoleate Alkyne; cis-Palmitoleic Acid Alkyne; (Z)-Hexadec-9-en-15-ynoic acid; (Z)-hexadec-9-en-15-ynoic acid; 2231023-75-7
CAS No.	2231023-75-7
Compound CID	137700432
Formula	C ₁₆ H ₂₆ O ₂
Formula Weight	250.4

Specification

Solubility in DMSO	100 mg/mL
Solubility in Ethanol	100 mg/mL
Solubility in DMF	100 mg/mL
Solubility in Other Solvents	Tris-HCl: 1 mg/mL
IUPAC Name	(Z)-hexadec-9-en-15-ynoic acid



InChI	InChI=1S/C16H26O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16(17)18/h1,7-8H,3-6,9-15H2,(H,17,18)/b8-7-
InChI Key	GICMJXPKCLXTLV-FPLPWBNLSA-N
Canonical SMILES	<chem>C#CCCCC/C=C\CCCCCCCC(O)=O</chem>
Stability	1 year
Storage	Storage at -20°C.
Applications	Palmitoleic acid alkyne serves as a click chemistry-compatible, terminal alkyne-functionalized saturated fatty acid probe engineered to enable covalent metabolic labeling approaches, lipid-protein interaction profiling, and high-precision tracking of lipid cellular localization.