



N-(8Z-Heptadecen-1-yl)-O-(3-pyridylmethyl)carbamate

Cat. No.:	OB0626WX-2439
Appearance:	Crystalline solid
Purity:	≥98%
Identity:	Confirmed by IR and TLC.
Size:	10 mg; 50 mg; 100 mg; 250 mg

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

Product Overview

Description	N-(8Z-Heptadecen-1-yl)-O-(3-pyridylmethyl)carbamate is a synthetic carbamate designed as a structural analog of plant-derived long-chain fatty acid amides that share structural homology with endogenous cannabinoids. Engineered to disrupt endocannabinoid turnover, this lipophilic molecule acts as a highly potent, irreversible inhibitor of fatty acid amide hydrolase, while concurrently demonstrating selective antiproliferative properties across diverse malignant cell lines.
Synonyms	N-(8Z)-8-heptadecen-1-yl-carbamic acid, 3-pyridinylmethyl ester; Pyridin-3-ylmethyl N-[(Z)-heptadec-8-enyl]carbamate; FAAH inhibitor 2; 3-pyridinylmethyl ester N-(8Z)-8-heptadecen-1-yl-carbamic acid; 3-pyridylmethyl N-[(Z)-heptadec-8-enyl]carbamate; Pyridin-3-ylmethyl (Z)-heptadec-8-en-1-ylcarbamate; 3-pyridinylmethyl ester N-(8Z)-8-heptadecen-1-yl-carbamic acid; 1450603-63-0
CAS No.	1450603-63-0
Compound CID	71770553
Formula	C ₂₄ H ₄₀ N ₂ O ₂
Formula Weight	388.6

Specification

λ_{max}	260 nm
Solubility in DMSO	30 mg/mL
Solubility in Ethanol	50 mg/mL



Solubility in DMF	50 mg/mL
Solubility in Other Solvents	Ethanol:PBS mixture: 0.3 mg/mL
IUPAC Name	pyridin-3-ylmethyl N-[(Z)-heptadec-8-enyl]carbamate
InChI	InChI=1S/C24H40N2O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-20-26-24(27)28-22-23-18-17-19-25-21-23/h9-10,17-19,21H,2-8,11-16,20,22H2,1H3,(H,26,27)/b10-9-
InChI Key	OQYCMOCYWBHSFE-KTKRTIGZSA-N
Canonical SMILES	<chem>O=C(OCC1=CC=CN=C1)NCCCCCCC/C=C\CCCCCCCC</chem>
Stability	1 year
Storage	Storage at -20°C.
Applications	N-(8Z-Heptadecen-1-yl)-O-(3-pyridylmethyl)carbamate serves as a reference compound for lipid-derived carbamate research and analytical characterization of synthetic lipid analogs. It supports structural identification, chromatographic method development, and biochemical investigations of lipid analog interactions.