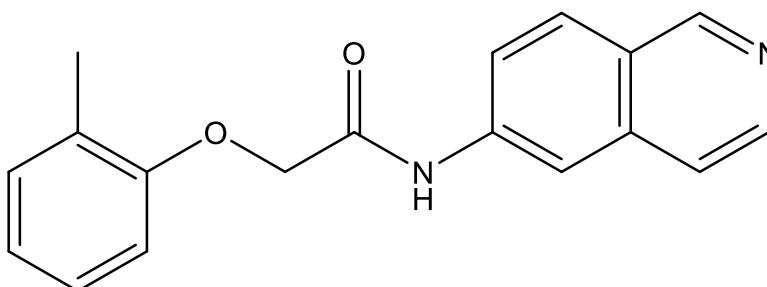


**Catalog # 10-3756**

**NOTUMib-1**

N-(Isoquinolin-6-yl)-2-(o-tolyloxy)acetamide

Lot # S105071



NOTUM is a carboxylesterase which depalmitoylates Wnt proteins which results in disruption of Wnt signaling<sup>1</sup>. NOTUMib-1 inhibits the carboxylesterase activity of NOTUM,  $IC_{50}=0.085 \mu\text{M}$ , and restores Wnt signaling. An important new tool for use in cellular disease models in which overactivity of NOTUM suppresses Wnt activity<sup>2</sup>. NOTUM inhibitors have potential as new therapeutics for degenerative diseases<sup>3</sup>.

- 1) Zhang *et al.* (2016), *Methods for Studying Wnt Protein Modifications/Inactivations by Extracellular Enzymes Tiki and Notum*; *Methods Mol. Biol.*, **1481** 29
- 2) Atkinson *et al.* (2019), *Discovery of 2-phenoxyacetamides as inhibitors of the Wnt-depalmitoleating enzyme NOTUM from an X-ray fragment screen*; *Med. Chem. Commun.*, Advance Article
- 3) Suci *et al.* (2018), *Selective Irreversible Inhibitors of the Wnt-Deacylating Enzyme NOTUM Developed by Activity-Based Protein Profiling*; *ACS Med. Chem. Lett.*, **9** 563

**PHYSICAL DATA**

Molecular Weight:	292.33
Molecular Formula:	$C_{18}H_{16}N_2O_2$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 35 mg/ml) or Ethanol (up to 5 mg/ml with warming)
Physical Description:	Beige solid
Storage and Stability:	Store as supplied desiccated at $-20^{\circ}\text{C}$ for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at $-20^{\circ}\text{C}$ for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.