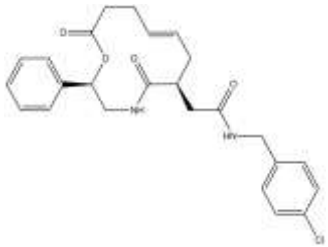
Robotnikinin

ALTERNATE NAME: N-[(4-Chlorophenyl)methyl]-2-[(2R,6S,8E)-5, 12-dioxo-2-phenyl-1-oxa-4-azacyclododec-8-en-6-yl]acetamide

CATALOG #: 1923-1

AMOUNT: 1 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{25}H_{27}ClN_2O_4$

MOLECULAR WEIGHT: 454.95

APPEARANCE: White solid

SOLUBILITY: DMSO

PURITY: ≥97% by NMR

STORAGE: Store at -20°C

DESCRIPTION: A small-molecule chemical inhibitor of Sonic hedgehog (Shh) signaling, that blocks hedgehog signaling through specific binding and blockade of Shh signaling factor. It is the first-characterized hedgehog inhibitor whose molecular mechanism of action is through blockade of Shh protein and not a subsequent factor of the hedgehog signaling cascades. Robotnikinin binds to the Shh-N terminal protein in a concentration-dependent fashion with a K_d of 9 µM.

REFERENCE: Stanton, B.Z., *et al.* (2009). *Nat. Chem. Biol.* **5,** 154-156.

NOTE: Sold for research purposes under license agreement from Harvard University

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

- Cyclopamine **(Cat. No. 1578-5)**
- Cyclopamine-KAAD **(Cat. No. 1910-50)**
- GANT58 **(Cat. No. 1812-5, 25)**
- GANT61 **(Cat. No. 1892-5)**
- GDC-0449 (**Cat. No. 1890-5, 25)**
- Hh Signaling Pathway Antagonist **(Cat. No. 1659-1)**
- DiscoveryPak™ hedgehog Signaling Pathway Antagonists Set **(Cat. No. K868-6)**
- JK-184 **(Cat. No. 1726-1)**
- Purmorphamine **(Cat. No. 1672-5)**
- Tomatidine hydrochloride **(Cat. No. 1893-25)**

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