

Product Name: M 25

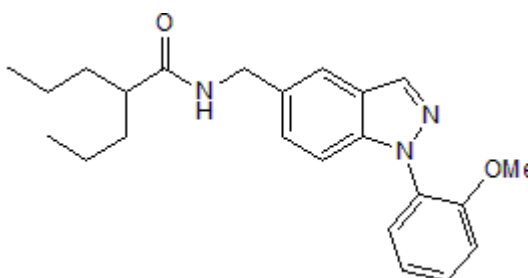
Catalog No.: 4917

Batch No.: 1

IUPAC Name: *N*-[[1-(2-Methoxyphenyl)-1*H*-indazol-5-yl]methyl]-2-propylpentanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₉N₃O₂
Batch Molecular Weight: 379.5
Physical Appearance: Orange solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.29 (Ethyl acetate:Petroleum ether [1:2])
HPLC: Shows >99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.79	7.7	11.07
Found	72.78	7.82	11.02

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent Smoothened (Smo) receptor antagonist (IC₅₀ = 5 nM). Inhibits the Hedgehog signaling pathway. Inhibits Shh induced Gli luciferase reporter activity in Shh-light 2 cells (IC₅₀ = 5 nM). Antagonizes GSA-10 and SAG-mediated differentiation of the C3H10T1/2 cell line (IC₅₀ values are 69 and 115 nM, respectively).

Physical and Chemical Properties:

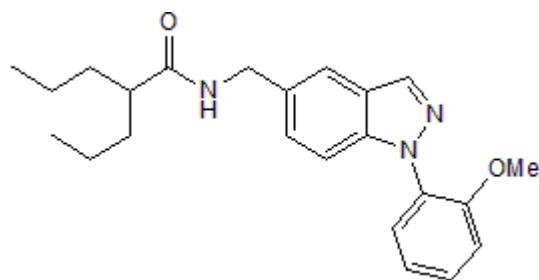
Batch Molecular Formula: C₂₃H₂₉N₃O₂

Batch Molecular Weight: 379.5

Physical Appearance: Orange solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Dessole et al (2009) Discovery of *N*-[(1-aryl-1*H*-indazol-5-yl)methyl]amides derivatives as smoothened antagonists for inhibition of the hedgehog pathway. *Bioorg.Med.Chem.Lett.* **19** (15) 4191. PMID: 19540115.

Gorojankina et al (2013) Discovery, molecular and pharmacological characterization of GSA-10, a novel small-molecule positive modulator of Smoothened. *Mol.Pharmacol.* **83** 1020. PMID: 23448715.

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USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSystems.com

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