

Certificate of Analysis

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Product Name: JW 480

Catalog No.: 4327

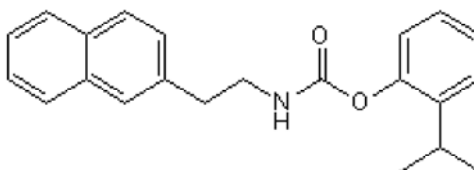
Batch No.: 2

CAS Number: 1354359-53-7

IUPAC Name: 2-Isopropylphenyl(2-(naphthalen-2-yl)ethyl)carbamate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₃NO₂.
Batch Molecular Weight: 333.42
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	79.25	6.95	4.2
Found	79.16	6.99	4.38

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

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Catalog No.: 4327

Batch No.: 2

CAS Number: 1354359-53-7

IUPAC Name: 2-Isopropylphenyl(2-(naphthalen-2-yl)ethyl)carbamate

Description:

JW 480 is a potent and selective inhibitor of the serine hydrolase enzyme KIAA1363 (neutral cholesterol ester hydrolase 1 or NCEH1) (IC_{50} = 20 nM in mouse brain). JW 480 impairs migration, invasion, survival and tumor growth of prostate cancer cell lines in vivo and reduces monoalkylglycerol ether (MAGE) levels.

Physical and Chemical Properties:

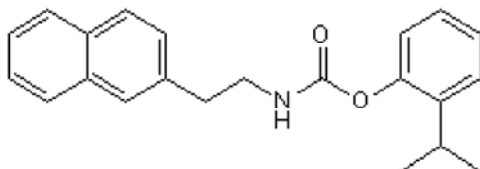
Batch Molecular Formula: $C_{22}H_{23}NO_2$.

Batch Molecular Weight: 333.42

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°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.

Licensing Information:

Sold under license from The Scripps Research Institute.

References:

Chang *et al* (2011) A potent and selective inhibitor of KIAA1363/AADACL1 that impairs prostate cancer pathogenesis. *Chem.Biol.* **18** 476. PMID: 21513884.

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