

Certificate of Analysis

Print Date: Jan 14th 2016

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Product Name: SMANT hydrochloride Catalog No.: 4662 Batch No.: 1

CAS Number: 1177600-74-6

IUPAC Name: N-(4-Bromophenyl)-3,5-dimethyl-1-piperidinepropanamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₂₃BrN₂O.HCl

Batch Molecular Weight: 375.73

Physical Appearance: Off-white solid

Solubility: water to 20 mM

DMSO to 100 mM ethanol to 20 mM

Storage: Desiccate at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogon Nitros

Carbon Hydrogen Nitrogen

Theoretical 51.15 6.44 7.46 Found 50.86 6.65 7.26



Product Information

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Description:

Inhibitor of Smoothened (Smo) signaling via a unique mechanism. Inhibits Shh-induced accumulation of Smo::EGFP fusion protein in the primary cilium (IC $_{50}$ = 1.1 μ M). Inhibits both wild-type Smo and an oncogenic form (SmoM2) with similar efficacy.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₆H₂₃BrN₂O.HCl

Batch Molecular Weight: 375.73 Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Desiccate at RT

Solubility & Usage Info:

water to 20 mM DMSO to 100 mM ethanol to 20 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:

Wang et al (2012) Selective identification of Hedgehog pathway antagonists by direct analysis of Smoothened ciliary translocation. ACS Chem.Biol. 7 1040. PMID: 22554036.