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Print Date: Jan 23rd 2024

Certificate of Analysis

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Product Name: CB 5083

Catalog No.: 7379 Batch No.: 1

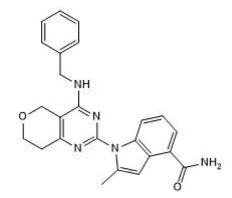
CAS Number: IUPAC Name: 1542705-92-9

1-[7,8-Dihydro-4-[(phenylmethyl)amino]-5H-pyrano[4,3-d]pyrimidin-2-yl]-2-methyl-1H-indole-4-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₂₄H₂₃N₅O₂.¾H₂O 426.99 Light yellow solid DMSO to 100 mM ethanol to 100 mM Store at -20°C

Storage: Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Shows 98.4% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 67.51 5.78 16.4 Found 67.74 5.7 16.47

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

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1-[7,8-Dihydro-4-[(phenylmethyl)amino]-5H-pyrano[4,3-d]pyrimidin-2-yl]-2-methyl-1H-indole-4-carboxamide

Description:

IUPAC Name:

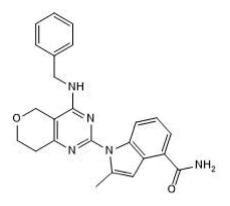
CB 5083 is a potent p97 inhibitor, inhibiting the D2 ATPase domain ($IC_{50} = 11 \text{ nM}$). CB 5083 shows broad antitumor activity and inhibits tumor growth in vivo. CB 5083 is cytotoxic to A549 cancer cells ($IC_{50} = 680 \text{ nM}$) and reduces cell viablility in a range of colorectal cancer cell lines. Increases CHOP and GRP78 protein levels, upregulates PD-L1 mRNA levels and results in the loss of aggresomes.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₄H₂₃N₅O₂.¾H₂O Batch Molecular Weight: 426.99 Physical Appearance: Light yellow 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 $45-60^{\circ}C$ water bath).

Catalog No.: 7379

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Mukkavalli et al (2021) The p97-UBXN1 complex regulates aggresome formation. J.Cell Sci. 134. PMID: 33712450.

Huryn et al (2019) p97: an emerging target for cancer, neurodegenerative diseases, and viral infections. J.Med.Chem. 63 1892. PMID: 31550150.

Vekaria et al (2019) Functional cooperativity of p97 and histone deacetylase 6 in mediating DNA repair in mantle cell lymphoma cells. Leukemia 33 1675. PMID: 30664664.

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