bio-techne
TOCRIS

Print Date: Jun 4th 2026

Certificate of Analysis

www.tocris.com

Product Name: **CB-103** **Catalog No.: 9002** **Batch No.: 1**

CAS Number: 218457-67-1

IUPAC Name: 6-[4-(1,1-Dimethylethyl)phenoxy]-3-pyridinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{18}N_2O$

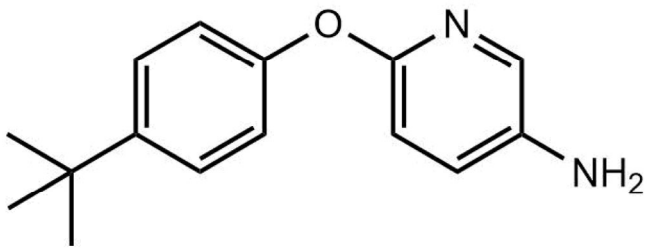
Batch Molecular Weight: 242.3

Physical Appearance: Pale pink to beige solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	74.35	7.49	11.56
Found	73.94	7.51	11.45

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Description:

CB-103 is a highly specific protein-protein interaction (PPI) inhibitor that interferes with the interaction between the active intracellular domains of Notch receptors (NICD) and the CSL transcription factor complex. In combination with ICI 182,780 (Cat. No. 1047), CB-103 arrests the growth of mouse xenografts from a patient-derived endocrine-resistant model. Also displays potent tumor growth inhibition and delayed tumor relapse when CB-103 was combined with Taxol (Cat. No. 1097). CB-103 inhibits differentiation of mural cells by downregulating Notch pathway.CB-103 is orally bioavailable. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

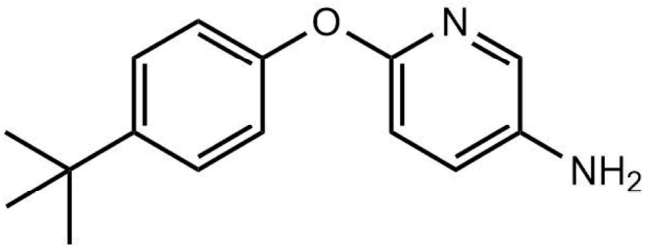
Batch Molecular Formula: $C_{15}H_{18}N_2O$

Batch Molecular Weight: 242.3

Physical Appearance: Pale pink to beige 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. *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:

Gastfriend *et al* (2024) Notch3 directs differentiation of brain mural cells from human pluripotent stem cell-derived neural crest. Sci.Adv. ***10***. PMID: 38306433.

Vigolo *et al* (2023) The efficacy of CB-103, a first-in-class transcriptional Notch inhibitor, in preclinical models of breast cancer. Cancers ***15*** 3957. PMID: 37568775.

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