



Certificate of Analysis

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Product Name: PFI 7 Catalog No.: 7960 Batch No.: 1

IUPAC Name: N-((1s,4s)-4-(1H-Benzo[a]imidazol-2-yl)cyclohexyl)-2-(((1H-indol-2-yl)methyl)amino)acetamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{27}N_5O.2HCl.1\frac{1}{2}H_2O$

Batch Molecular Weight: 501.45

Physical Appearance: Pink crystalline solid

Solubility: water to 100 mM with gentle warming

DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen Chlorine

Theoretical 57.49 6.43 13.97 14.14 Found 56.99 6.3 13.76 14.65

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

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Product Information

Print Date: Jan 28th 2025

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Product Name: PFI 7 Catalog No.: 7960 Batch No.: 1

IUPAC Name: N-((1s,4s)-4-(1H-Benzo[d]imidazol-2-yl)cyclohexyl)-2-(((1H-indol-2-yl)methyl)amino)acetamide dihydrochloride

Description:

PFI 7 is a selective GID4 antagonist (K_d = 80 nM by SPR assays and EC₅₀ = 0.6 μ M by cell-based NanoBRET). PFI 7 binds within the ß-barrel of GID4 substrate binding pocket, disrupting its interaction with the canonical Pro/N-degron peptide in live cells. It alters protein levels of several proteins including RNA helicases as measured by quantitative proteomics.

Physical and Chemical Properties:

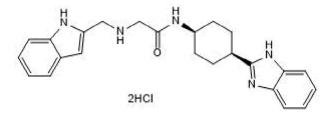
Batch Molecular Formula: C₂₄H₂₇N₅O.2HCI.1½H₂O

Batch Molecular Weight: 501.45

Physical Appearance: Pink crystalline solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM with gentle warming DMSO 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.

Licensing Information:

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the PFI 7 probe summary on the SGC website.

References:

Owens et al (2024) A chemical probe to modulate human GID4 Pro/N-degron interactions. Nat. Chem. Biol. 20 1164. PMID: 38773330.