SZABO SCANDIC

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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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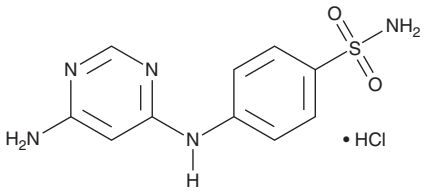
# PRODUCT INFORMATION

## PNU 112455A

*Item No. 33438*

| | |
|---|---|
| **CAS Registry No.:** | 21886-12-4 |
| **Formal Name:** | 4-[(6-amino-4-pyrimidinyl)amino]-benzenesulfonamide, monohydrochloride |
| **MF:** | $C_{10}H_{11}N_5O_2S \bullet HCl$ |
| **FW:** | 301.8 |
| **Purity:** | ≥95% |
| **UV/Vis.:** | $\lambda_{max}$: 221, 255, 304 nm |
| **Supplied as:** | A solid |
| **Storage:** | -20°C |
| **Stability:** | ≥2 years |




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

PNU 112455A is supplied as a solid. A stock solution may be made by dissolving the PNU 112455A in the solvent of choice, which should be purged with an inert gas. PNU 112455A is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of PNU 112455A in ethanol is approximately 10 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of PNU 112455A can be prepared by directly dissolving the solid in aqueous buffers. The solubility of PNU 112455A in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

PNU 112455A is an inhibitor of cyclin-dependent kinase 2 (Cdk2) and Cdk5 ($K_i$ = 2 µM for both).[1] It inhibits hyperphosphorylation of tau and cell death induced by the synthetic glucocorticoid dexamethasone (Item No. 11015) in PC12 rat adrenal medulla cells expressing human tau when used at concentrations of 1 and 10 µM.[2]

### References


1. Clare, P.M., Poorman, R.A., Kelley, L.C., *et al*. The cyclin-dependent kinases cdk2 and cdk5 act by a random, anticooperative kinetic mechanism. *J. Biol. Chem.* **276(51)**, 48292-48299 (2001).
2. Sotiropoulos, I., Catania, C., Riedemann, T., *et al*. Glucocorticoids trigger Alzheimer disease-like pathobiochemistry in rat neuronal cells expressing human tau. *J. Neurochem.* **107(2)**, 385-397 (2008).





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