

Product Name: DPTN

Catalog No.: 7628

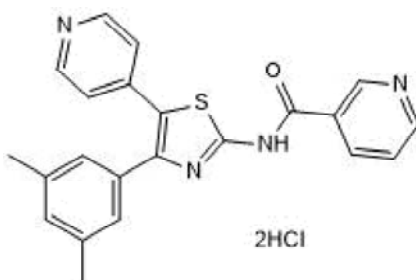
Batch No.: 1

CAS Number: 325767-87-1

IUPAC Name: *N*-[4-(3,5-Dimethylphenyl)-5-(4-pyridinyl)-2-thiazolyl]-3-pyridinecarboxamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₈N₄OS.2HCl.¼H₂O
Batch Molecular Weight: 463.89
Physical Appearance: Yellow solid
Solubility: DMSO to 20 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	56.96	4.45	12.08	15.28
Found	56.07	4.34	11.76	14.58

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

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CAS Number: 325767-87-1	EC Number:	
IUPAC Name: N-[4-(3,5-Dimethylphenyl)-5-(4-pyridinyl)-2-thiazolyl]-3-pyridinecarboxamide dihydrochloride		

Description:

DPTN is a potent and selective A₃ adenosine receptor antagonist (K_i values are in the range 0.36 - 1.65 nM (hA₃AR) and 1.6 - 8.53 nM (rA₃AR)). Reduces intrapulmonary pressure when combined with Dexamethasone (Cat. No. 1126).

Physical and Chemical Properties:

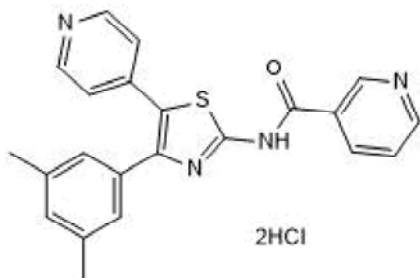
Batch Molecular Formula: C₂₂H₁₈N₄OS.2HCl.½H₂O

Batch Molecular Weight: 463.89

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM with gentle warming

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:

Gao *et al* (2021) Pharmacological characterization of DPTN and other selective A₃ adenosine receptor antagonists. *Purinergic Signal*. **17** 737. PMID: 34713378.

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