

Product Name: GPP 78 hydrochloride

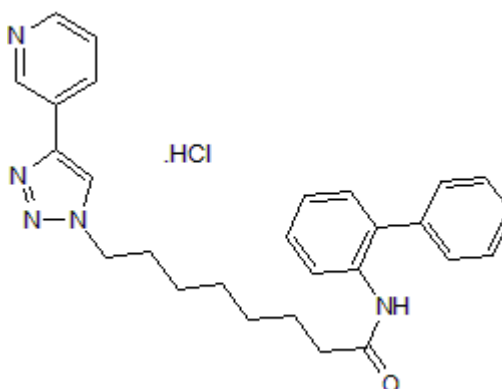
Catalog No.: 4835

Batch No.: 1

IUPAC Name: *N*-[1,1'-Biphenyl]-2-yl-4-(3-pyridinyl)-1*H*,1,2,3-triazole-1-octanamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₉N₅O.HCl
Batch Molecular Weight: 476.01
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 100 mM
ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.13	6.35	14.71
Found	67.82	6.18	14.61

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

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Description:

Inhibitor of nicotinamide phosphoribosyltransferase (NMPRTase); potently depletes NAD levels and exhibits cytotoxicity in vitro (IC₅₀ values are 3.0 and 3.8 nM respectively). Also shown to induce autophagy in neuroblastoma cells.

Physical and Chemical Properties:

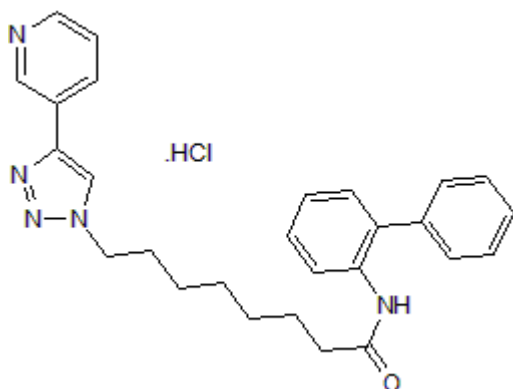
Batch Molecular Formula: C₂₇H₂₉N₅O.HCl

Batch Molecular Weight: 476.01

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM
DMSO to 100 mM
ethanol to 50 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. 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:

Colombano et al (2010) A novel potent nicotinamide phosphoribosyltransferase inhibitor synthesized via click chemistry. *J.Med.Chem.* **53** 616. PMID: 19961183.

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