

Product Name: LP 922761

Catalog No.: 6229

Batch No.: 1

CAS Number: 1454808-95-7

IUPAC Name: *tert*-Butyl (2-((3-(4-carbamoylphenyl)imidazo[1,2-*b*]pyridazin-6-yl)amino)ethyl)(methyl)carbamate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₆N₆O₃·¼H₂O

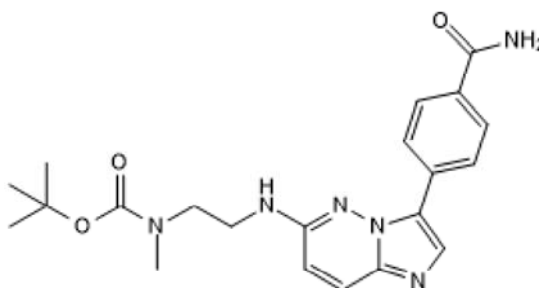
Batch Molecular Weight: 414.97

Physical Appearance: White solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.78	6.44	20.25
Found	60.77	6.48	19.98

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

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Description:

Potent AAK1 inhibitor (IC₅₀ values are 4.8 and 7.6 nM in enzyme and cell assays, respectively). Exhibits some selectivity for AAK1 over BIKE, and exhibits no significant activity at opioid, adrenergic α₂ or GABA_A receptors. Orally bioavailable. Peripherally restricted.

Physical and Chemical Properties:

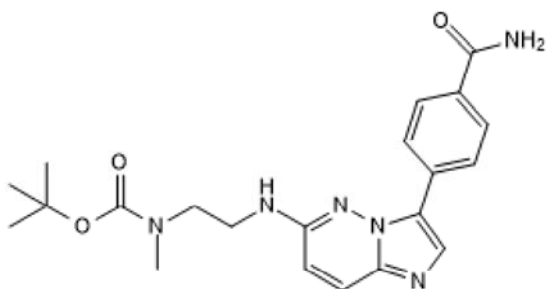
Batch Molecular Formula: C₂₁H₂₆N₆O₃·¼H₂O

Batch Molecular Weight: 414.97

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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:

Kostich *et al* (2016) Inhibition of AAK1 kinase as a novel therapeutic approach to treat neuropathic pain. *J.Pharmacol.Exp.Ther.* **358** 371. PMID: 27411717.

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