

Certificate of Analysis

Product Name: LDN 214117

Catalog No.: 6152

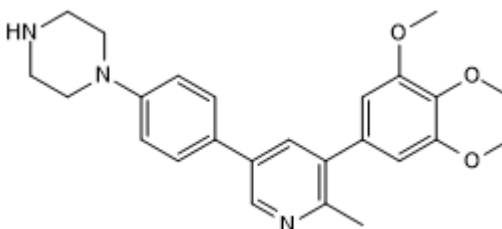
Batch No.: 1

CAS Number: 1627503-67-6

IUPAC Name: 1-[4-[6-Methyl-5-(3,4,5-trimethoxyphenyl)-3-pyridinyl]phenyl]piperazine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₉N₃O₃
Batch Molecular Weight: 419.52
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.57	6.97	10.02
Found	71.57	6.95	10.04

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

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Description:

Potent and selective inhibitor of type I bone morphogenic protein (BMP) receptor ALK2 (IC₅₀ = 24 nM). Shows preference for ALK1 and ALK2 over ALK3 and 164-fold selectivity for BMP6 inhibition (IC₅₀ = 100 nM) over TGF-β1. Exhibits improved kinome selectivity over K 02288 (Cat.No. 4986) and low cytotoxicity.

Physical and Chemical Properties:

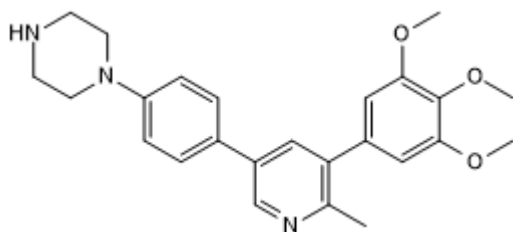
Batch Molecular Formula: C₂₅H₂₉N₃O₃

Batch Molecular Weight: 419.52

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Mohedas et al (2014) Structure-activity relationship of 3,5-diaryl-2-aminopyridine ALK2 inhibitors reveals unaltered binding affinity for fibrodysplasia ossificans progressiva causing mutants. *J Med Chem.* **57** 7900. PMID: 25101911.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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. 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.

Licensing Information:

Sold for research purposes under exclusive agreement from The Brigham and Women's Hospital Inc. US patent 14/776,302

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