

Product Name: NIBR LTSi

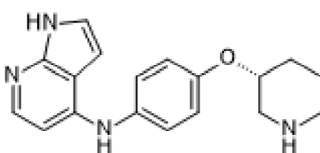
Catalog No.: 8175

Batch No.: 1

IUPAC Name: *N*-[4-[(3*R*)-Piperidin-3-yl]oxyphenyl]-1*H*-pyrrolo[2,3-*b*]pyridin-4-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₀N₄O
Batch Molecular Weight: 308.39
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
Chiral HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.11	6.54	18.17
Found	69.27	6.5	17.96

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

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1

IUPAC Name: N-[4-[(3R)-Piperidin-3-yl]oxyphenyl]-1H-pyrrolo[2,3-b]pyridin-4-amine

Description:

NIBR-LTSi is a potent and selective large tumor suppressor kinase (LATS) inhibitor ($IC_{50} = 1.4$ nM). Also activates YAP signaling ($EC_{50} = 1.0 - 2.7$ μ M). Promotes liver organoid formation ($EC_{50} = 0.35$ μ M), hepatocyte proliferation, ISC expansion, and blocks differentiation. NIBR-LTSi is orally bioavailable and suitable for use in vivo and in vitro.

Physical and Chemical Properties:

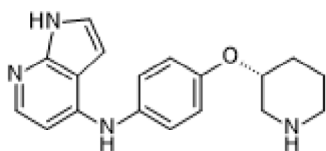
Batch Molecular Formula: $C_{18}H_{20}N_4O$

Batch Molecular Weight: 308.39

Physical Appearance: Beige solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



References:

Namoto et al (2024) NIBR-LTSi is a selective LATS kinase inhibitor activating YAP signaling and expanding tissue stem cells in vitro and in vivo. *Cell Stem Cell* **31** 554. PMID: 38579685.

Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

DMSO 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 $45-60^{\circ}C$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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