

Certificate of Analysis

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Product Name: NVP BHG 712 trifluoroacetate

Catalog No.: 4405

Batch No.: 1

CAS Number: 940310-85-0

IUPAC Name: 4-Methyl-3-[[1-methyl-6-(3-pyridinyl)-1*H*-pyrazolo[3,4-*d*]pyrimidin-4-yl]amino]-*N*-[3-(trifluoromethyl)phenyl]benzamide trifluoroacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₀F₃N₇O.CF₃CO₂H

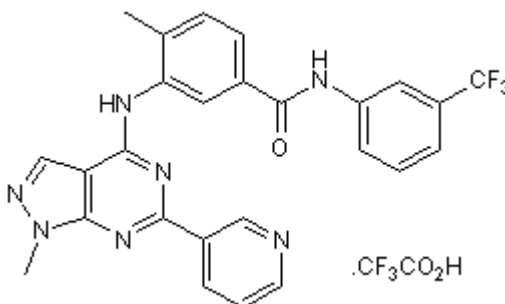
Batch Molecular Weight: 617.5

Physical Appearance: Off-white solid

Solubility: DMSO to 40 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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

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Description:

Selective inhibitor of EphB4 kinase; exhibits selectivity for EphB4 over more than 40 other kinases in vitro, including FGFR3. Inhibits EphB4 autophosphorylation in transiently transfected HEK 293 cells. Also inhibits VEGF-induced angiogenesis in vivo; thought to inhibit EphB4 forward signaling. Orally active.

Physical and Chemical Properties:

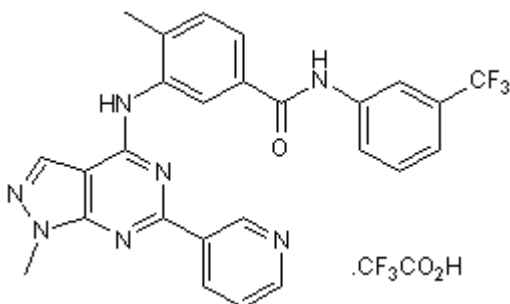
Batch Molecular Formula: C₂₆H₂₀F₃N₇O.CF₃CO₂H

Batch Molecular Weight: 617.5

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 40 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:

Martiny-Baron et al (2010) The small molecule specific EphB4 kinase inhibitor NVP-BHG712 inhibits VEGF driven angiogenesis. *Angiogenesis*. **13** 259. PMID: 20803239.

Wnuk et al (2012) Podocyte EphB4 signaling helps recovery from glomerular injury. *Kidney Int*. **81** 1212. PMID: 22398409.

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