

Product Name: RAF 265

Catalog No.: 6015

Batch No.: 1

CAS Number: 927880-90-8

IUPAC Name: 1-Methyl-5-[[2-[5-(trifluoromethyl)-1*H*-imidazol-2-yl]-4-pyridinyl]oxy]-*N*-[4-(trifluoromethyl)phenyl]-1*H*-benzimidazol-2-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₁₆F₆N₆O.H₂O

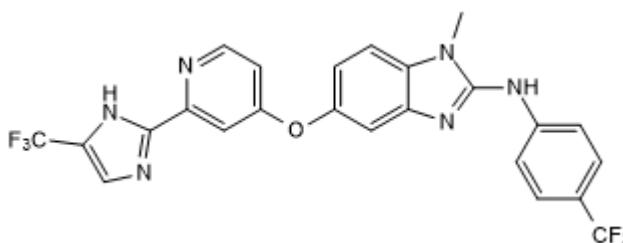
Batch Molecular Weight: 536.43

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.74	3.38	15.67
Found	53.93	3.39	15.37

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Description:

Raf kinase and VEGFR-2 inhibitor. Inhibits c-Raf, wild type B-Raf and mutant B-Raf (V600E). Cytotoxic in certain melanoma cells lines. Effects enhanced by protein kinase D3 inhibition, preventing reactivation of MAPK signaling and increasing caspase activity. Orally bioavailable.

Physical and Chemical Properties:

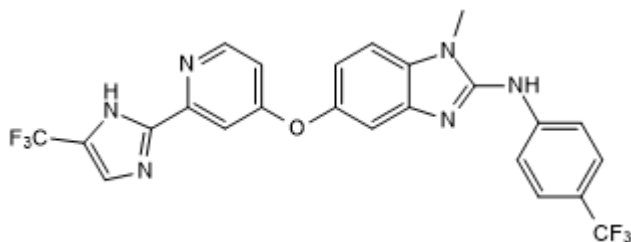
Batch Molecular Formula: C₂₄H₁₆F₆N₆O.H₂O

Batch Molecular Weight: 536.43

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 20 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:

Chen et al (2011) Protein kinase D3 sensitizes RAF inhibitor RAF265 in melanoma cells by preventing reactivation of MAPK signaling. *Cancer Res.* **71** 4280. PMID: 21527556 .

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