

Product Name: EHop 016

Catalog No.: 6248

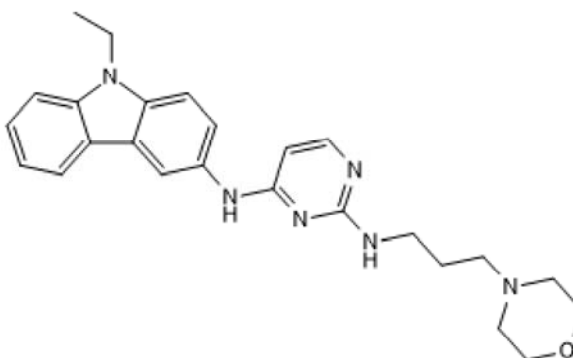
Batch No.: 1

CAS Number: 1380432-32-5

IUPAC Name: *N*⁴-(9-Ethyl-9*H*-carbazol-3-yl)-*N*²-[3-(4-morpholinyl)propyl]-2,4-pyrimidinediamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₃₀N₆O
Batch Molecular Weight: 430.55
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.74	7.02	19.52
Found	69.57	7.06	19.17

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

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Description:

Rac inhibitor (IC₅₀ = 1.1 μM). Exhibits some selectivity for Rac1 and Rac3 over Cdc42. Blocks the interaction of Rac with guanine nucleotide exchange factor Vav2 in breast cancer cell lines expressing high levels of Rac activity and inhibits activity of Rac downstream effector PAK1. Also inhibits mammary tumor growth and metastasis in mice.

Physical and Chemical Properties:

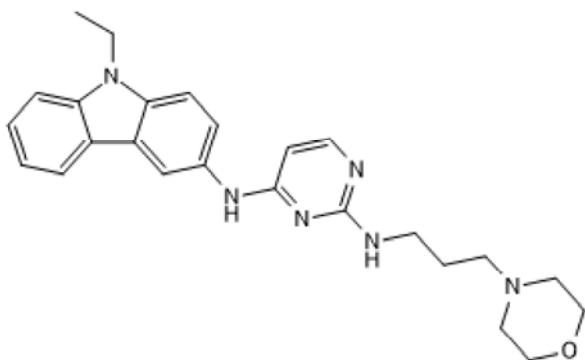
Batch Molecular Formula: C₂₅H₃₀N₆O

Batch Molecular Weight: 430.55

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:

Castillo-Pichardo et al (2014) The Rac inhibitor EHop-016 inhibits mammary tumor growth and metastasis in a nude mouse model. *Transl.Oncol.* **7** 546. PMID: 25389450.

Montalvo-Ortiz et al (2012) Characterization of EHop-016, novel small molecule inhibitor of Rac GTPase. *J.Biol.Chem.* **287** 13228. PMID: 22383527.

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