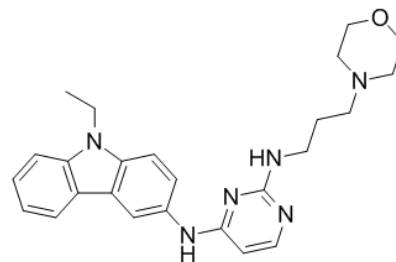


Product Name : EHop-016
Cat. No. : PC-43223
CAS No. : 1380432-32-5
Molecular Formula : C₂₅H₃₀N₆O
Molecular Weight : 430.5453
Target : Small GTPase
Solubility : DMSO: ≥ 32 mg/mL



Biological Activity

EHop-016 is a specific **Rac GTPase** inhibitor with IC₅₀ of 1.1 μM, which is 100-fold lower than for NSC23766, EHop-016 is specific for Rac1 and Rac3 at <5 μM.

EHop-016 also inhibits the close homolog Cdc42 at higher concentrations; inhibits Rac activity in the MDA-MB-435 metastatic cancer cells that overexpress Rac and exhibits high endogenous Rac activity.

EHop-016 inhibits the association of Vav2 with a nucleotide-free Rac1(G15A) in MDA-MB-435 cells.

EHop-016 also inhibits the Rac activity of MDA-MB-231 metastatic breast cancer cells and reduces Rac-directed lamellipodia formation in both cell lines, decreases Rac downstream effects of PAK1 activity and directed migration of metastatic cancer cells.

EHop-016 inhibits mammary tumor growth and metastasis in nude mouse model.

References

Montalvo-Ortiz BL, et al. *J Biol Chem*. 2012 Apr 13;287(16):13228-38.

Dharmawardhane S, et al. *Enzymes*. 2013;33 Pt A:117-46.

Martin H, et al. *J Clin Invest*. 2013 Oct;123(10):4449-63.

Castillo-Pichardo L, et al. *Transl Oncol*. 2014 Oct 24;7(5):546-55.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com