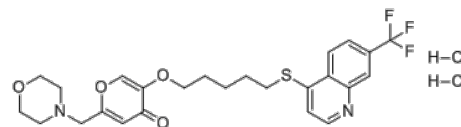


Product Name : EHT1864
Cat. No. : PC-49212
CAS No. : 754240-09-0
Molecular Formula : C₂₅H₂₉Cl₂F₃N₂O₄S
Molecular Weight : 581.472
Target : Small GTPase
Solubility : 10 mM in DMSO



Biological Activity

EHT1864 is a small molecule Rac inhibitor that blocks the **Rac1 signaling** pathways with IC₅₀ of 5 uM in cellular luciferase assays, binds to Rac1b and Rac2 with very similar affinities (50 and 60 nM, respectively).

EHT 1864 possesses high affinity binding to Rac1, as well as the related Rac1b, Rac2, and Rac3 isoforms, interferes with the process of nucleotide exchange on Rac1.

EHT 1864 specifically inhibited Rac1-dependent platelet-derived growth factor-induced lamellipodia formation.

EHT 1864 reduces production of Aβ 40 and 42 amyloid peptides in SH-SY5Y cells endogenously expressing wild type APP with IC₅₀ of 5.4 uM, does not affect α-secretase and BACE pathways.

EHT 1864 (40 mg/kg/day, oral) reduces Aβ 40 levels in adult albino guinea pig brain.

References

Bhanot H, et al. *J Biol Chem*. 2005 Nov 11;280(45):37516-25.

Shutes A, et al. *J Biol Chem*. 2007 Dec 7;282(49):35666-78.

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

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