

CE3F4

Catalog No: **tcsc0029107**



Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg



Specifications

CAS No:

143703-25-7

Formula:

$C_{11}H_{10}Br_2FNO$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

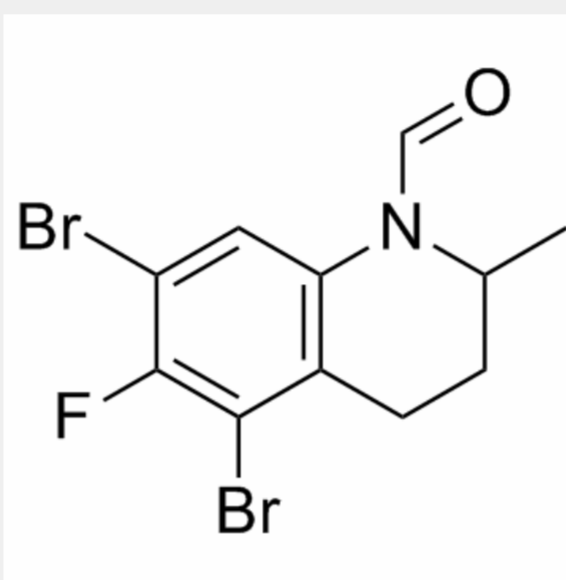
351.01

Product Description

CE3F4 is a selective antagonist of exchange protein directly activated by cAMP (**Epac1**), with **IC₅₀**s of 10.7 μ M and 66 μ M for Epac1 and Epac2(B), respectively.

IC50 & Target: IC50: 10.7 μ M (Epac1), 66 μ M (Epac2(B))^[1]

In Vitro: CE3F4 is a selective antagonist of Epac1, with IC₅₀s of 10.7 μ M and 66 μ M for Epac1 and Epac2(B), respectively. CE3F4 is more active on Epac1 than (S)-stereoisomer ((S)-CE3F4, IC₅₀, 56 μ M), but less active than (R)-CE3F4 (IC₅₀, 5.8 μ M). CE3F4 (50 μ M) shows more inhibitory activities against GEF activity of Epac1, than that of Epac2(AB) or Epac2(B)^[1]. CE3F4 reduces the exchange activity of Epac1 induced by 007, with IC₅₀ of 23 ± 3 μ M. CE3F4 (40 μ M) specifically inhibits Epac1 guanine nucleotide exchange activity without interference with Rap1 activity or Epac1-Rap1 interaction. CE3F4 has no influence on PKA activity. CE3F4 (20 μ M) inhibits Epac-induced Rap1 activation in living cultured HEK293 cells^[2]. CE3F4 (20 μ M) significantly inhibits the late phase of ERK activation stimulated by glucose in INS-1 cells^[3].



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