Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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 **IC_{50}**s of 10.7 μM and 66 μM for Epac1 and Epac2(B), respectively.

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IC50 & Target: IC50: 10.7 μM (Epac1), 66 μM (Epac2(B))[1]

In Vitro: CE3F4 is a selective antagonist of Epac1, with IC_{50}s of 10.7 μM and 66 μM for Epac1 and Epac2(B), respectively. CE3F4 is more active on Epac1 than (S)-stereoisomer ((S)-CE3F4, IC_{50}, 56 μM), but less active than (R)-CE3F4 (IC_{50}, 5.8 μM). CE3F4 (50 μM) 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 IC_{50} of 23 ± 3 μM. CE3F4 (40 μM) 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 μM) inhibits Epac-induced Rap1 activation in living cultured HEK293 cells[2]. CE3F4 (20 μM) significantly inhibits the late phase of ERK activation stimulated by glucose in INS-1 cells[3].