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

E7046

Catalog No: tcsc7559

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Specifications

CAS No:
1369489-71-3

Formula:
$C_{22}H_{18}F_5N_3O_4$

Pathway:
GPCR/G Protein

Target:
Prostaglandin Receptor

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 100 mg/mL (206.87 mM)

Observed Molecular Weight:
483.39

Product Description

E7046 is an orally bioavailable and specific **EP4** antagonist, with **IC_{50}** of 13.5 nM and K_i of 23.14 nM, exhibiting anti-tumor activities.

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IC50 & Target: IC50: 13.5 nM (EP4)[2]

Ki: 23.14 nM (EP4)[2]

In Vitro: E7046 reverses the immunosuppressive effects of PGE2 on activation and differentiation of human myeloid cells through selective EP4 antagonism[2].

In Vivo: In the CT-26 tumor model, the E7046/RT combination causes the anti-tumor memory response of 9 animals. In the 4T1 model, the combination of E7046 and RT also produces significant better tumor growth inhibition activity compared with each treatment alone. The combination significantly improves survival by inhibiting the subsequent spontaneous lung metastasis of 4T1 tumors[1]. E7046 (150 mg/kg) inhibits the growth of multiple syngeneic tumor models. Blockade of EP4 signaling promotes anti-tumor DC differentiation and slows tumor growth in mice. E7046 treatment reduces the growth or even rejected established tumors in vivo in a manner dependent on both myeloid and CD8C T cells. Furthermore, co-administration of E7046 and E7777, an IL-2-diphtheria toxin fusion protein that preferentially kills Tregs, synergistically disrupts the myeloid and Treg immunosuppressive networks, resulting in effective and durable anti-tumor immune responses in mouse tumor models[2].