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

VX-702

Catalog No: tcsc0074

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Specifications

CAS No:
745833-23-2

Formula:
$C_{19}H_{12}F_4N_4O_2$

Pathway:
MAPK/ERK Pathway

Target:
p38 MAPK

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 42 mg/mL (103.88 mM)

Observed Molecular Weight:
404.32

Product Description

VX-702 is a highly selective inhibitor of p38α MAPK(IC50=4 -20 nM), 14-fold higher potency against the p38α versus p38β.

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IC50 value: 4-20 nM [1]

Target: p38α MAPK

in vitro: Pre-incubation of platelets with VX-702 (1 μM) completely or partially inhibits p38 activation (IC50 4 to 20 nM) induced by platelet agonists including thrombin, SFLLRN, AYPGKF, U46619 and collagen. VX-702 shows no effect on platelet aggregation induced by any of the p38 MAPK agonists in the presence or absence of anti-platelet therapies [1]. VX-702 inhibits the production of IL-6, IL-1β and TNFα (IC50 = 59, 122 and 99 ng/mL, respectively) in a dose-dependent manner [2].

in vivo: The half-life of VX-702 is 16 to 20 hours, with a median clearance of 3.75 L/h and a volume of distribution of 73 L/kg. Both AUC and Cmax values are dose proportional for VX-702, which is predominantly cleared renally [2]. VX-702 (at a dose of 0.1 mg/kg twice daily) has an equivalent effect as that of methotrexate (0.1 mg/kg). In addition, VX-702 (5 mg/kg twice daily) also has an equivalent effect as prednisolone (10 mg/kg once daily), as measured by percentage inhibition of wrist joint erosion and inflammation score [3].