Taiclone®
Quality Guarantee

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

BX795

Catalog No: tcsc0259

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg

Size: 200mg

Specifications

CAS No:
702675-74-9

Formula:
$C_{23}H_{26}IN_7O_2S$

Pathway:
PI3K/Akt/mTOR

Target:
PDK-1

Purity / Grade:
>98%

Solubility:
DMSO : 50 mg/mL (84.54 mM; Need ultrasonic)

Observed Molecular Weight:
591.47

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Product Description

BX795 is a potent and selective dual inhibitor of **TBK1/PDK1** with **IC_{50}**s of 2 nM/6 nM, respectively, and has > 50 fold selectivity over PKA, PKC, c-Kit, GSK3β etc.

IC50 & Target: IC50: 2 nM (TBK1), 6 nM (PDK1)

In Vitro: BX795 effectively blocks PDK1 activity in PC-3 cells, as shown by their ability to block phosphorylation of S6K1, Akt, PKCδ, and GSK3β. BX795 potently inhibits tumor cell growth on plastic with IC_{50} of 1.6, 1.4, and 1.9 μM for MDA-468, HCT-116 and MiaPaca cells, respectively. In soft agar, BX795 displays higher growth inhibition with IC_{50} of 0.72, and 0.25 μM for MDA-468, and PC-3 cells, respectively[1]. In addition, BX795, as an inhibitor of the TBK1/IKKε, blocks TBK1- and IKKε-mediated activation of IRF3 and production of IFN-β[2]. In platelet physiological responses, BX795 produces inhibitory effect on 2-MeSADP-induced or collagen-induced aggregation, ATP secretion and thromboxane generation[3].