

# 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:**

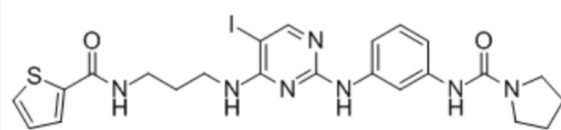
591.47

## Product Description

BX795 is a potent and selective dual inhibitor of **TBK1/PDK1** with **IC<sub>50</sub>**s of 2 nM/6 nM, respectively, and has > 50 fold selectivity over PKA, PKC, c-Kit, GSK3 $\beta$  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, PKC $\delta$ , and GSK3 $\beta$ . BX795 potently inhibits tumor cell growth on plastic with IC<sub>50</sub> of 1.6, 1.4, and 1.9  $\mu$ M for MDA-468, HCT-116 and MiaPaca cells, respectively. In soft agar, BX795 displays higher growth inhibition with IC<sub>50</sub> of 0.72, and 0.25  $\mu$ M for MDA-468, and PC-3 cells, respectively<sup>[1]</sup>. In addition, BX795, as an inhibitor of the TBK1/IKK $\epsilon$ , blocks TBK1- and IKK $\epsilon$ -mediated activation of IRF3 and production of IFN- $\beta$ <sup>[2]</sup>. In platelet physiological responses, BX795 produces inhibitory effect on 2-MeSADP-induced or collagen-induced aggregation, ATP secretion and thromboxane generation<sup>[3]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!