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

MK-8745

Catalog No: tcsc5664

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
885325-71-3

Formula:
$C_{20}H_{19}ClFN_5OS$

Pathway:
Cell Cycle/DNA Damage;Epigenetics

Target:
Aurora Kinase;Aurora Kinase

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 34 mg/mL (78.72 mM)

Observed Molecular Weight:
431.91

Product Description

MK-8745 is an **aurora A** kinase inhibitor with **IC_{50}**s of 0.6 nM.

IC50 & Target: IC50: 0.6 nM (Aurora A)[1]

In Vitro:

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MK-8745 induces apoptotic cell death in a p53-dependent manner when tested *in vitro* in cell lines of multiple lineages. Exposure of p53 wild-type cells to MK-8745 results in the induction of p53 phosphorylation (ser15) and an increase in p53 protein expression[1]. 1 μM of MK-8745 exposure for 24 h induces cell cycle arrest in all NHL cells, with variable degrees of G2/M arrest. Z138C cells are highly sensitive to MK-8745 (1 μ M) treatment and induces an approximate 5.5-fold increase in the G2/M phase cell population by 96 h. MK-8745 treatment inhibits phosphorylation of Aurora-A in Granta 519 and Z138C cells, while Akata and JVM2 has no effect. MK-8745 specifically inhibits Aurora-A specific function. MK-8745 treatment leads to apoptotic cell death[2].