

# MP7

**Catalog No: tcsc0709**



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

1001409-50-2

**Formula:**

$C_{28}H_{22}F_2N_4O_4$

**Pathway:**

PI3K/Akt/mTOR

**Target:**

PDK-1

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

PDK1 inhibitor

**Observed Molecular Weight:**

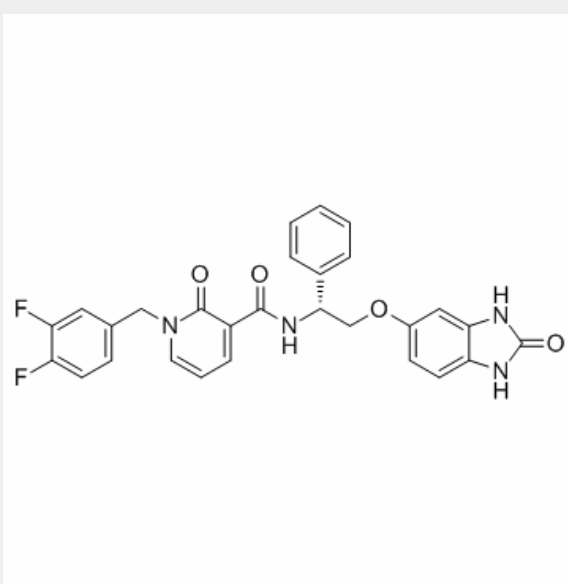
516.5

## Product Description

MP7 is a phosphoinositide-dependent kinase-1 (**PDK1**) inhibitor.

IC50 & Target: PDK1<sup>[1]</sup>

***In Vitro:*** Cell counting of U87MG-derived glioma stem cells (GSCs) confirms that Alisertib and, to a minor extent, MP7 are able to decrease the number of viable cells. When combined together, GSC viability is further reduced with respect to single-treated cells. As observed in U87MG cells, when used at the highest concentrations (i.e., 1.5  $\mu$ M Alisertib and 2.5  $\mu$ M MP7), a significant enhancement in the number of dead cells is evidenced. Following 72 h treatment, MP7 alone does not show a significant inhibition of glioblastoma multiforme (GBM) proliferation. MP7 has been shown to have only minimal effects on monolayer cell growth in several cancer cell lines, with IC<sub>50</sub> values in the micromolar range<sup>[1]</sup>.



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