

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:

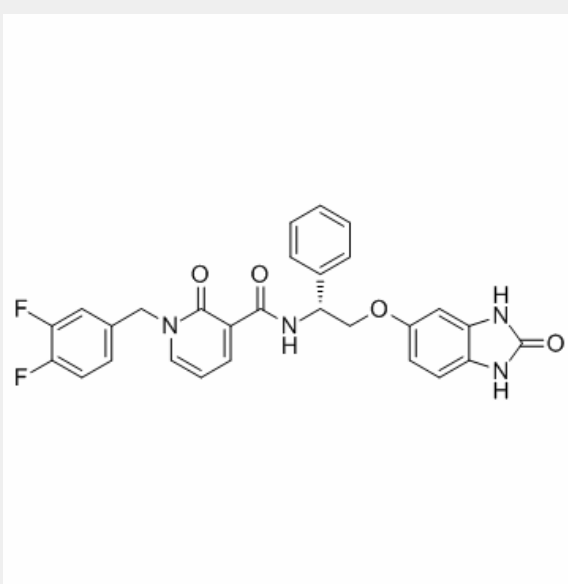
516.5

Product Description

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

IC50 & Target: PDK1^[1]

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 μ M Alisertib and 2.5 μ 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 IC₅₀ values in the micromolar range^[1].



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