



MP7

Available Sizes
Size: 5mg
Size: 10mg
Size: 50mg
Size: 100mg
Specifications
CAS No: 1001409-50-2
Formula: C ₂₈ H ₂₂ F ₂ N ₄ O 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., $1.5 \,\mu$ 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 $_{50}$ values in the micromolar range^[1].

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