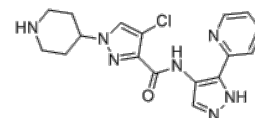


Product Name : BDP5290
Cat. No. : PC-63524
CAS No. : 1817698-21-7
Molecular Formula : C₁₇H₁₈ClN₇O
Molecular Weight : 371.829
Target : ROCK
Solubility : 10 mM in DMSO



Biological Activity

BDP5290 (BDP00005290) is a potent myotonic dystrophy kinase-related CDC42-binding kinase (**MRCK**) inhibitor with K_i of 10/4 nM for MRCK α/β , respectively.

BDP5290 exhibits 86 and 46-fold in vitro selectivity for MRCK β over ROCK1 and ROCK2; demonstrates marked selectivity for MRCK β over ROCK1 or ROCK2 for inhibition of myosin II light chain (MLC) phosphorylation in cells;

BDP5290 blocks MLC phosphorylation at both cytoplasmic actin stress fibres and peripheral cortical actin bundles.

BDP5290 strongly inhibits the invasion of human SCC12 squamous cell carcinoma cells at 2 μ M.

References

Unbekandt M, et al. Cell Commun Signal. 2014 Oct 5;12:54.

Unbekandt M, et al. Cancer Res. 2018 Apr 15;78(8):2096-2114.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com