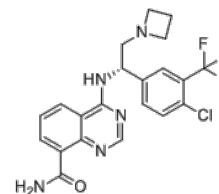


Product Name : M2698
Cat. No. : PC-60433
CAS No. : 1379545-95-5
Molecular Formula : C₂₁H₁₉ClF₃N₅O
Molecular Weight : 449.862
Target : Ribosomal S6 Kinase (RSK)
Solubility : 10 mM in DMSO



Biological Activity

M2698 (MSC2363318A) is a potent, selective, ATP-competitive, orally bioavailable and brain penetrant dual inhibitor of **p70S6K** and **Akt1/3** with IC₅₀ of 1 nM and 17 nM, respectively.

M2698 displays relative selectivity against a panel of 264 kinases (only 6 kinases within 10-fold IC₅₀ of p70S6K).

M2698 inhibits the phosphorylation of p70S6K1 and Akt substrates, S6 (IC₅₀=11 nM) and GSK3β (IC₅₀=17 nM) in MDA-MB-468 cells, shows proliferation inhibition of 9 breast cancer cell lines (IC₅₀<2 μM).

M2698 inhibits growth of human breast cancer xenografted tumors in mice.

References

Machl A, et al. *Am J Cancer Res*. 2016 Mar 15;6(4):806-18.

Previs RA, et al. *J Natl Cancer Inst*. 2017 Jul 1;109(7).

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

E-mail: tech@probechem.com