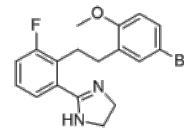


Product Name : ML00253764
Cat. No. : PC-61573
CAS No. : 681847-92-7
Molecular Formula : C₁₈H₁₈BrFN₂O
Molecular Weight : 377.257
Target : Melanocortin Receptor
Solubility : 10 mM in DMSO



Biological Activity

ML00253764 is a non-peptide, brain penetrant **melanocortin MC4 receptor (MC4R)** antagonist with IC₅₀ of 0.32, 0.81 and 2.12 μM for MC4, MC3 and MC5 receptors, respectively.

ML00253764 decreases cAMP accumulation in HEK-293 cells expressing the MC4 receptor, increases food intake and effectively reduces tumor-induced weight loss in mouse model.

ML00253764 exhibits an antiproliferative and proapoptotic activity through the inhibition of the phosphorylation of ERK1/2 and Akt in glioblastoma cell, also shows highly synergistic effect combined with temozolomide both in vitro and in vivo.

References

Vos TJ, et al. *J Med Chem.* 2004 Mar 25;47(7):1602-4.

Nicholson JR, et al. *J Pharmacol Exp Ther.* 2006 May;317(2):771-7.

Vaglini F, et al. *Mol Neurobiol.* 2017 Aug 8. doi: 10.1007/s12035-017-0702-4.

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

E-mail: tech@probechem.com