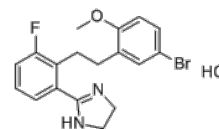


Product Name : ML00253764 hydrochloride
Cat. No. : PC-61574
CAS No. : 1706524-94-8
Molecular Formula : C₁₈H₁₈BrFN₂O.HCl
Molecular Weight : 413.71
Target : Melanocortin Receptor
Solubility : 10 mM in DMSO



Biological Activity

ML00253764 hydrochloride is a non-peptide, brain penetrant melanocortin MC4 receptor (**MC4R**) antagonist with IC₅₀ of 0.32, 0.81 and 2.12 μ M 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!

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