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Data Sheet

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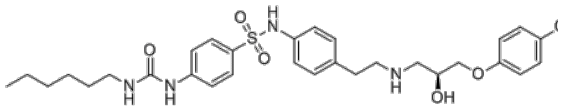
Product Name : L755507
Cat. No. : PC-38661
CAS No. : 159182-43-1
Molecular Formula : $C_{30}H_{40}N_4O_6S$
Molecular Weight : 584.732
Target : c-Myc
Solubility : 10 mM in DMSO



Biological Activity

L755507 is a potent, selective β3-adrenoceptor (**β3-AR**) agonist, exhibits robust concentration-dependent increase in cAMP accumulation in CHO-K1 cells expressing human β3-adrenoceptors (pEC50=12.3), also effectively inhibits the **c-Myc-MAX** heterodimerization.
L755507 increases phosphorylation of extracellular signal-regulated kinase 1/2 (Erk1/2) with pEC50 of 11.7, couples to both Gs and Gi to activate adenylate cyclase and MAPK signaling.
L755507 efficiently restricts the growth of diverse Myc-expressing cells with low micromolar IC50 values, decreases expression of c-Myc target genes.
L755507 binds to the c-Myc peptide and thereby stabilizes the helix–loop–helix conformation of the c-Myc transcription factor.

References

Sato M, et al. ***Mol Pharmacol***. 2008 Nov;74(5):1417-28.

Hutchinson DS, et al. ***Br J Pharmacol.*** 2002 Apr;135(8):1903-14.

Singh A, et al. ***J Biol Chem***. 2021 Jul;297(1):100903.

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