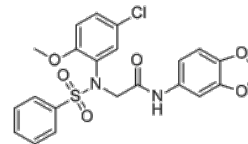


Product Name : LX-2343
Cat. No. : PC-63276
CAS No. : 333745-53-2
Molecular Formula : C₂₂H₁₉ClN₂O₆S
Molecular Weight : 474.912
Target : PI3K
Solubility : 10 mM in DMSO



Biological Activity

LX-2343 (LX2343) is a non-ATP competitive **PI3K** inhibitor that negatively regulates AKT/mTOR signaling, thus promoting autophagy and increasing A β clearance, also inhibits **BACE1** enzymatic activity with IC₅₀ of 11.43 μ M.

LX-2343 reduced A β production involving JNK/APPT_{hr}668 pathway inhibition.

LX-2343 (5-20 μ M) dose-dependently decreases A β accumulation in HEK293-APP_{sw} and CHO-APP cells, and promotes A β clearance in SH-SY5Y cells and primary astrocytes.

LX-2343 significantly ameliorates cognitive deficits and markedly ameliorates the A β pathology in brains in APP/PS1 transgenic mice.

References

Guo XD, et al. *Acta Pharmacol Sin.* 2016 Sep;37(10):1281-1297.

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Sun G, et al. *Eur J Med Chem.* 2018 Feb 10;145:622-633.

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

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