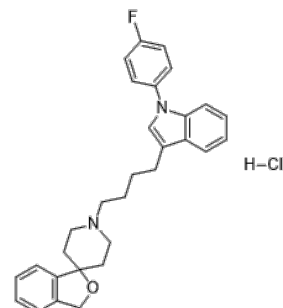


Product Name : Siramesine hydrochloride
Cat. No. : PC-28289
CAS No. : 224177-60-0
Molecular Formula : C₃₀H₃₂ClFN₂O
Molecular Weight : 491.05
Target : Sigma Receptor
Solubility : 10 mM in DMSO



Biological Activity

Siramesine hydrochloride (Lu 28-179) is a lysosomotropic agent and potent, selective sigma-2 receptor ligand and agonist with binding IC₅₀ of 0.12 nM, exhibits 140-fold selectivity over Sigma-1 receptor.

Siramesine inhibits acid sphingomyelinase (ASM) by interfering with the binding of ASM to its essential lysosomal cofactor, bis(monoacylglycero)phosphate.

Siramesine is a lysosomotropic detergent that induces cytoprotective autophagosome accumulation.

Siramesine induces lysosomal leakage and cathepsin-dependent death of cancer cells in vitro and displays potent anti-cancer activity in vivo.

Siramesine effectively induces caspase-independent programmed cell death in immortalized and transformed cells of various origins.

References

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Petersen NH, et al. Cancer Cell. 2013 Sep 9;24(3):379-93.

Zeng C, et al. Br J Cancer. 2012 Feb 14;106(4):693-701.

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

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