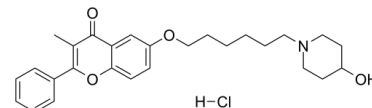


Data Sheet

Product Name:	Sigma-LIGAND-1 (hydrochloride)
Cat. No.:	CS-0437619
CAS No.:	139652-86-1
Molecular Formula:	C ₂₇ H ₃₄ ClNO ₄
Molecular Weight:	472.02
Target:	Sigma Receptor
Pathway:	Neuronal Signaling
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

Sigma-LIGAND-1 hydrochloride is a selective **sigma receptor** ligand with an **IC₅₀s** of 16 nM, 19 nM at the DTG site and the PPP site, respectively. Sigma-LIGAND-1 hydrochloride has a **K_i** of 4000 nM at the dopamine D₂ receptor^[1]. IC₅₀ & Target: IC₅₀: 16 nM (DTG site of sigma receptor), 19 nM (PPP site of sigma receptor)^[1]

K_i: 4000 nM (Dopamine D₂ receptor)^[1] **In Vivo:** Administration of Sigma-LIGAND-1 hydrochloride reverseS amphetamine-induced hyperlocomotion in mice, a behavioral model sensitive to antipsychotic compounds. Sigma-LIGAND-1 hydrochloride and its structural analogues have the potential antipsychotic activity^[1].

References:

[1]. Erickson RH, et al. (Aminoalkoxy)chromones. Selective sigma receptor ligands. J Med Chem. 1992 May 1;35(9):1526-35.

CAIndexNames:

4H-1-Benzopyran-4-one, 6-[[6-(4-hydroxy-1-piperidinyl)hexyl]oxy]-3-methyl-2-phenyl-, hydrochloride (1:1)

SMILES:

O=C1C(C)=C(C2=CC=CC=C2)OC3=CC=C(OCCCCCN4CCC(O)CC4)C=C13.[H]Cl

Caution: Product has not been fully validated for medical applications. For research use only.

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