
Product Data Sheet

Product Name: Sigma-LIGAND-1 hydrochloride

Cat. No.: GC67893

Chemical Properties

Cas. No. 139652-86-1

Formula $C_{27}H_{34}ClNO_4$

M.Wt 472.02

Solubility DMSO : 12.5 mg/mL (26.48 mM; ultrasonic and warming and heat to 60°C)

Storage 4°C, away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

IC₅₀: 16 nM (DTG site of sigma receptor), 19 nM (PPP site of sigma receptor)^[1]

K_i: 4000 nM (Dopamine D₂ receptor)^[1]

Sigma-LIGAND-1 hydrochloride is a selective **Sigma Receptor** ligand with an **IC₅₀** 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].

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].

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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA