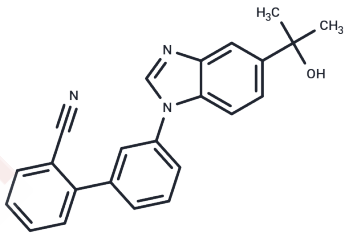
Data Sheet (Cat.No.T2067)

TargetMol

NS11394

Chemical Properties



CAS No. : 951650-22-9

Formula: C23H19N3O

Molecular Weight: 353.42

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	NS11394 is a effective and subtype-selective GABA(A) receptor-positive modulator; possesses a functional efficacy selectivity profile of α(5) > α(3) > α(2) > α(1) at GABA(A) alpha subunit-containing receptors.
Targets(IC50)	GABA Receptor
Kinase Assay	Inhibition of FLT3 autophosphorylation: To measure inhibition of FLT3 autophosphorylation, MV4-11 or RS4;11 cells are cultured in low serum media (0.5% FBS) overnight and seeded at a density of 400 000 cells per well in a 96-well plate the following day. The cells are incubated with different concentrations of AC220 for 2 hours at 37 °C. To induce FLT3 autophosphorylation in RS4;11 cells, 100 ng/mL FLT3 ligand is added for 15 minutes after the 2-hour AC220 incubation. Cell lysates are prepared and incubated in 96-well plates precoated with a total FLT3 capture antibody. The coated plates are incubated with either a biotinylated antibody against FLT3 to detect total FLT3 or an antibody against phosphotyrosines to detect FLT3 autophosphorylation. In both cases, a SULFO-tagged streptavidin secondary antibody is used for electrochemiluminescence detection on the Meso Scale Discovery platform. The concentration of AC220 that inhibits FLT3-ITD or TLT3-WT autophosphorylation by 50% represents IC50 value

Solubility Information

Solubility	DMSO: 60 mg/mL (169.77 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.66 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8295 mL	14.1475 mL	28.2949 mL
5 mM	0.5659 mL	2.8295 mL	5.659 mL
10 mM	0.2829 mL	1.4147 mL	2.8295 mL
50 mM	0.0566 mL	0.2829 mL	0.5659 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Munro G, et al. J Pharmacol Exp Ther. 2008 Dec;327(3):969-81.