

NS11394

Chemical Properties

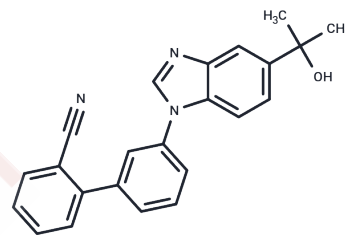
CAS No. : 951650-22-9

Formula: C₂₃H₁₉N₃O

Molecular Weight: 353.42

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

| | |
|---------------|---|
| Description | NS11394 is a effective and subtype-selective GABA(A) receptor-positive modulator; possesses a functional efficacy selectivity profile of $\alpha(5) > \alpha(3) > \alpha(2) > \alpha(1)$ 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

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|------------|--|
| Solubility | DMSO: 60 mg/mL (169.77 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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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.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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