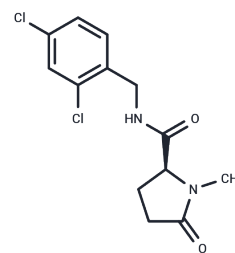


GSK1370319A

Chemical Properties

CAS No. : 1001389-31-6
 Formula: C₁₃H₁₄Cl₂N₂O₂
 Molecular Weight: 301.17
 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	GSK1370319A is a potent P2X7 antagonist (IC ₅₀ = 3.2 nM). GSK1370319A inhibits ATP-induced increase in IL-1 β release and caspase 1 activation in lipopolysaccharide (LPS)-primed mixed glia by blocking assembly of the inflammasome in a pannexin 1-dependent manner. GSK1370319A also inhibits ATP-induced subregion-specific neuronal loss in hippocampal organotypic slice cultures, which is dependent on its ability to prevent inflammasome assembly in glia. Significantly, GSK1370319A attenuates age-related deficits in long-term potentiation (LTP) and inhibits the accompanying age-related caspase 1 activity. We conclude that inhibiting P2X(7) receptor-activated NLRP3 inflammasome formation and the consequent IL-1 β release from glia preserve neuronal viability and synaptic activity.
Targets(IC ₅₀)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3204 mL	16.6019 mL	33.2038 mL
5 mM	0.6641 mL	3.3204 mL	6.6408 mL
10 mM	0.332 mL	1.6602 mL	3.3204 mL
50 mM	0.0664 mL	0.332 mL	0.6641 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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