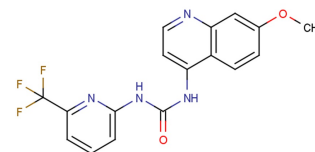


A 1070722

Chemical Properties

CAS No.:	1384424-80-9
Formula:	C ₁₇ H ₁₃ F ₃ N ₄ O ₂
Molecular Weight:	362.31
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	A 1070722 is a potent and selective GSK-3 inhibitor, with a K_i of 0.6 nM for both GSK-3 α and GSK-3 β . It can penetrate the blood-brain barrier (BBB) and accumulates in brain regions, thus potential for PET radiotracer for the quantification of GSK-3 in brain.
Targets(IC ₅₀)	GSK-3 α : 0.6 nM (ki) GSK-3 β : 0.6 nM (ki)

Solubility Information

Solubility	DMSO: 83.33 mg/mL (230.00 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.76 mL	13.8 mL	27.601 mL
5 mM	0.552 mL	2.76 mL	5.52 mL
10 mM	0.276 mL	1.38 mL	2.76 mL
50 mM	0.055 mL	0.276 mL	0.552 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Prabhakaran J, et al. Radiosynthesis and in Vivo Evaluation of [¹¹C]A1070722, a High Affinity GSK-3 PET Tracer in Primate Brain. ACS Chem Neurosci. 2017 Aug 16;8(8):1697-1703.

Inhibitors · Natural Compounds · Compound Libraries

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