

Data Sheet

| Product Name: | A 1070722 | |
|--------------------|--|--------|
| Cat. No.: | CS-0028815 | |
| CAS No.: | 1384424-80-9 | \sim |
| Molecular Formula: | C ₁₇ H ₁₃ F ₃ N ₄ O ₂ | HN_O |
| Molecular Weight: | 362.31 | HN, |
| Target: | GSK-3 | |
| Pathway: | PI3K/Akt/mTOR; Stem Cell/Wnt | N |
| Solubility: | DMSO : 83.33 mg/mL (230.00 mM; Need ultrasonic) | F→ |

BIOLOGICAL ACTIVITY:

A 1070722 is a potent and selective **glycogen synthase kinase 3 (GSK-3)** inhibitor, with a **K**_i of 0.6 nM for both GSK-3 α and GSK-3 β . A 1070722 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^[1]. IC50 & Target: Ki: 0.6 nM (GSK-3)^[1]

References:

[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.

CAIndexNames:

Urea, N-(7-methoxy-4-quinolinyl)-N'-[6-(trifluoromethyl)-2-pyridinyl]-

SMILES:

FC(F)(F)C1=NC(NC(NC2=CC=NC3=C2C=CC(OC)=C3)=O)=CC=C1

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

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