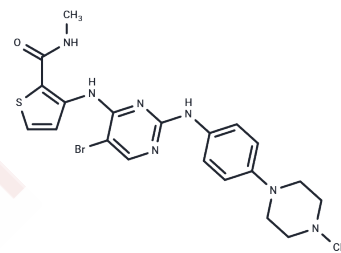


FAK-IN-14

## Chemical Properties

CAS No. : 2766666-22-0  
 Formula: C<sub>21</sub>H<sub>24</sub>BrN<sub>7</sub>O<sub>5</sub>  
 Molecular Weight: 502.43  
 Storage: Store at low temperature  
 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	FAK-IN-14 is a highly effective focal adhesion kinase (FAK) inhibitor that induces apoptosis and cell cycle arrest. FAK-IN-14 has weak inhibitory effects on Akt, c-kit, MEK1/2 and mTOR, but has significant inhibitory effects on FAK, FGFR1 and Pyk2.
Targets(IC50)	FAK,FGFR,MEK,PYK2,Akt,c-Kit,mTOR
In vitro	FAK-IN-14 is a FAK inhibitor with an IC <sub>50</sub> value of 0.2438 nM. it induces U87-MG cells to enter an early apoptotic phase and leads to cycle arrest of these cells in G2/M phase. [1]

## Solubility Information

Solubility	DMSO: 20 mg/mL (39.81 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	1.9903 mL	9.9516 mL	19.9033 mL
5 mM	0.3981 mL	1.9903 mL	3.9807 mL
10 mM	0.199 mL	0.9952 mL	1.9903 mL
50 mM	0.0398 mL	0.199 mL	0.3981 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

Long Z, et al. Design, synthesis and biological evaluation of 4-arylamino-pyrimidine derivatives as focal adhesion kinase inhibitors. Bioorg Chem. 2023 Nov;140:106792.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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