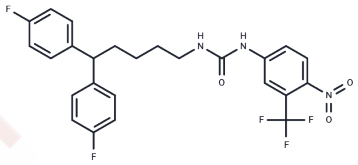
Data Sheet (Cat.No.T39992)

TargetMol

FGFR1 inhibitor-2

Chemical Properties



CAS No. : 2410612-08-5

Formula: C25H22F5N3O3

Molecular Weight: 507.461

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	FGFR1 inhibitor-2 (with an IC50 of 4.55 μM in MDA-MB-231 cells) is a potent inhibitor of FGFR1. It is specifically useful for studying metastatic triple-negative breast cancer.
Targets(IC50)	FGFR,Others
In vitro	FGFR1 inhibitor-2, when applied at concentrations of 3 and 6 μM to MDA-MB-231 cells for a duration of 48 hours, effectively diminishes FGFR1 expression, as evidenced by Western Blot Analysis[1]. Additionally, a dose-dependent increase in the apoptotic index of MDA-MB-231 cells is observed, reaching a significant 10.6-fold elevation at a concentration of 5 μM, indicating a pronounced pro-apoptotic effect at this dosage[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9706 mL	9.853 mL	19.706 mL
5 mM	0.3941 mL	1.9706 mL	3.9412 mL
10 mM	0.1971 mL	0.9853 mL	1.9706 mL
50 mM	0.0394 mL	0.1971 mL	0.3941 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

Ashraf-Uz-Zaman M, et al. Design, synthesis and structure-activity relationship study of novel urea compounds as FGFR1 inhibitors to treat metastatic triple-negative breast cancer. Eur J Med Chem. 2021;209:112866.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481