

P22077, USP7 inhibitor

Catalog	Unit
TBI4125-10MG	10 mg
TBI4125-50MG	50 mg

Product Details

Formal Name: 1-(5-((2,4-Difluorophenyl)thio)-4-nitrothiophen-2-yl)ethanone

Molecular Formula: C₁₂H₇F₂NO₃S₂

Formula Weight: 315.32

CAS Number: 1247819-59-5

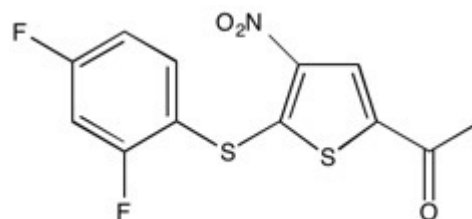
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 25 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

USP7 inhibitor

Functions

P22077 is a selective (tested against 23 other DUBs) inhibitor of USP7 (IC₅₀ = 8 μM) and the closely related USP47. It destabilizes claspin, a scaffolding protein involved in regulating Chk1 kinase, a DNA damage response enzyme. P22077 inhibits neuroblastoma growth via induction of p53-mediated apoptosis. N-Myc was destabilized by P22077 inhibition of USP7 in human neuroblastoma cells. It was able to stabilize p53 levels in conjunction with an Mdm2 inhibitor (Nutlin-3, Cat# 10-1350) in HCT116 colorectal carcinoma cells.

Application Procedures

First dissolved in DMSO (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.