

Catalog	Unit
TBI1560-5MG	5 mg
TBI1560-25MG	25 mg

Product Details

Formal Name: N-(4-(1H-1,2,3-Triazol-1-yl)benzyl)-5-methyl-2-(2-isopropylphenyl)pyrimidin-4-amine

Alternate Names: CID 60167849; NCGC00262306

Molecular Formula: C₂₃H₂₄N₆

Formula Weight: 384.48

CAS Number: 1572414-83-5

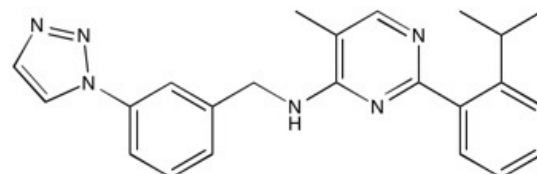
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 40 mg/ml) or in Ethanol (up to 20 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

USP1-UAF1 inhibitor

Functions

Potent and reversible USP1-UAF1 deubiquitinase complex inhibitor with excellent selectivity against human DUBs, deSUMOylase, deneddylase and unrelated proteases, IC₅₀=76 nm in a ubiquitin-rhodamine 110 assay. In H1299 non-small cell lung cancer cells treatment with ML323 dose dependently and robustly increased levels of monoubiquitinated PCNA compared to untreated cells at concentrations as low as 1 μM. It potentiates cisplatin cytotoxicity in non-small cell lung cancer and osteosarcoma cells. ML323 inhibition of upregulated USP1 in BRCA1-deficient tumor cells results in replication fork destabilization and decreased viability.

Application Procedures

First dissolved in DMSO (up to 40 mg/ml) or in Ethanol (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 3 months.

For research use only.