

ML323

Cat. # F4120, F4121

Also Known as: N-(4-(1H-1,2,3-triazol-1-yl)benzyl)-2-(2-isopropylphenyl)-5-methylpyrimidin-4-amine

Formula: C₂₃H₂₄N₆

MW: 384.48 Da

CAS No.: 1572414-83-5

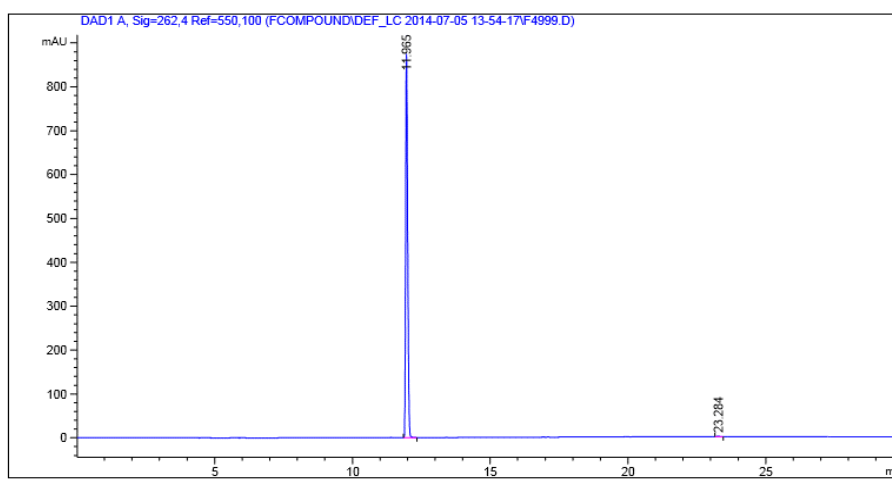
Source: Synthetic

Form: Lyophilized powder

Solubility: Soluble in DMSO (~50 mg/mL) or EtOH 9~20 mg/mL

Concentration: N/A

Quality Assurance: >98% by HPLC and NMR



Purity check of ML323 by HPLC

Description: ML323 is a cell permeable, selective and highly potent inhibitor of USP1-UAF1 with IC₅₀ of 76 nM in a Ub-Rho assay and 174 nM and 820 nM in orthogonal gel-based assays using K63-linked diubiquitin (di-Ub) and monoubiquitinated PCNA (Ub-PCNA) as substrates, respectively. ML 323 effectively sensitized cisplatin-resistant NSCLC H596 cells and U2OS osteosarcoma cells to cisplatin since it simultaneously targets two major DNA damage response pathways (TLS and FA) by inhibiting USP1-UAF1.

Storage: Eligible for room temperature shipping. Store at -20°C upon receiving; protect from air and light

How to use ML323 was used at 10-30 μM in various in vitro assay.

Literature: Liang Q, *et al.* (2014) Nat Chem Biol. 10(4):298-304.

