

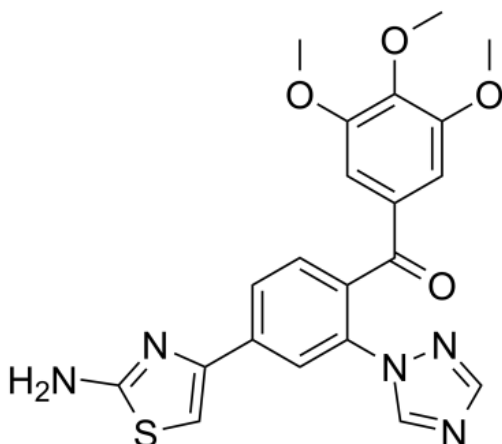
Product Data Sheet

Product Name: S516
Cat. No.: GC38945

Chemical Properties

Cas. No. 1016543-77-3
SMILES O=C(C1=CC=C(C2=CSC(N)=N2)C=C1N3N=CN=C3)C4=CC(OC)=C(OC)C(OC)=C4
Formula $C_{21}H_{19}N_5O_4S$ M.Wt 437.47
Solubility DMSO: 12.5 mg/mL (28.57 mM) Storage Store at -20°C
General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

S516 (Compound 22) is an active metabolite of CKD-516 and a potent tubulin polymerization inhibitor with an IC₅₀ of 4.29 μM. S516 has marked antitumor activity[1].

S516 has potent cytotoxicity with IC₅₀s of 4.8 nM, 42.8 nM and 24.9 nM for HL-60, HCT116 and HCT15 cells, respectively[1]. S516 (Compound 22; 30 nM; 16 hours; HL60 cells) treatment causes significant arrest of cells at the G2/M phase, resulting in apoptosis with concomitant loss of G0/G1 phase[1]. Cell Cycle Analysis[1] Cell Line: HL60 cells

Caution: Product has not been fully validated for medical applications. For research use only.

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S516 (Compound 22; 5-10 mg/kg; intraperitoneal injection; mice) treatment has promising antitumor activity (inhibition ratio (IR) > 63%) in human LX-1 lung cancer and CX-1 colon cancer mouse xenografts[1]. Animal Model: Mice bearing 3LL lung cancer[1]

[1]. Lee J, et al. Identification of CKD-516: a potent tubulin polymerization inhibitor with marked antitumor activity against murine and human solid tumors. J Med Chem. 2010 Sep 9;53(17):6337-54.

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