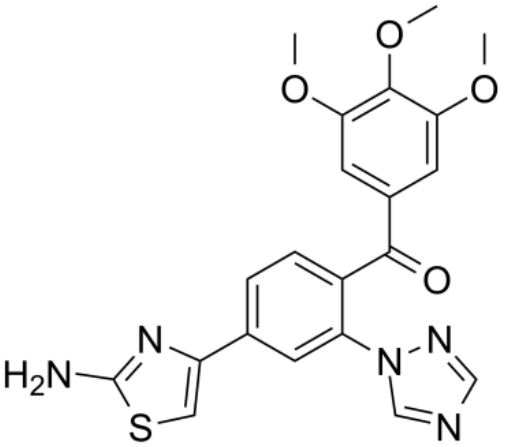
Product Data Sheet

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) treatmemt 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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