Product Data Sheet

Product Name: Mps1-IN-1 dihydrochloride
Cat. No.: GC50110

Chemical Properties

Cas. No.	1883548-93-3		
SMILES	CC(C)S(C(C=CC=C3)=C3NC1=CC(NC4=C(OC)C=C(N5CCC(O)CC5)C=C4)=NC2=C1C=CN2)(=O)=O.Cl.Cl		
Formula	$C_{28}H_{33}N_5O_4S.2HCl$	M.Wt	608.58
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Mps1-IN-1 dihydrochloride		

Background

Selective monopolar spindle 1 (Mps1) kinase inhibitor (IC50 = 367 nM); exhibits >1000 fold-selectivity against a panel of 352 kinases with the exceptions of ALK and Ltk. Disrupts the recruitment of Mad2 to kinetochores. Increases frequency of multipolar mitosis in U2OS cells.

Kwiatkowski et al (2010) Small-molecule kinase inhibitors provide insight into Mps1 cell cycle function. Nat.Chem.Biol. 6 359 PMID:20383151 |Miduturu et al (2011) High-throughput kinase profiling: a more efficient approach toward the discovery of new kinase inhibitors. Chem.Biol. 18 868 PMID:21802008 |Lan and Cleveland (2010) A chemical tool box defines mitotic and interphase roles for Mps1 kinase. J.Cell Biol. 190 21 PMID:20624898

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA