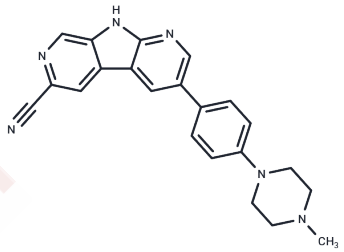
Data Sheet (Cat.No.T27424)

TargetMol

GNE-783

Chemical Properties



CAS No. : 1200127-66-7

Formula: C22H20N6

Molecular Weight: 368.43

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	GNE-783 is a selective inhibitor of CHK1.
Targets(IC50)	Others,Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7142 mL	13.5711 mL	27.1422 mL
5 mM	0.5428 mL	2.7142 mL	5.4284 mL
10 mM	0.2714 mL	1.3571 mL	2.7142 mL
50 mM	0.0543 mL	0.2714 mL	0.5428 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Gazzard L, Williams K, Chen H, Axford L, Blackwood E, Burton B, Chapman K, Crackett P, Drobnick J, Ellwood C, Epler J, Flagella M, Gancia E, Gill M, Goodacre S, Halladay J, Hewitt J, Hunt H, Kintz S, Lyssikatos J, Macleod C, Major S, Médard G, Narukulla R, Ramiscal J, Schmidt S, Seward E, Wiesmann C, Wu P, Yee S, Yen I, Malek S. Mitigation of Acetylcholine Esterase Activity in the 1,7-Diazacarbazole Series of Inhibitors of Checkpoint Kinase 1. J Med Chem. 2015 Jun 25;58(12):5053-74. doi: 10.1021/acs.jmedchem.5b00464. Epub 2015 Jun 4. PubMed PMID: 25988399.

Gazzard L, Appleton B, Chapman K, Chen H, Clark K, Drobnick J, Goodacre S, Halladay J, Lyssikatos J, Schmidt S, Sideris S, Wiesmann C, Williams K, Wu P, Yen I, Malek S. Discovery of the 1,7-diazacarbazole class of inhibitors of checkpoint kinase 1. Bioorg Med Chem Lett. 2014 Dec 15;24(24):5704-5709. doi: 10.1016/j.bmcl.2014.10.063. Epub 2014 Oct 27. PubMed PMID: 25453805.

Del Nagro CJ, Choi J, Xiao Y, Rangell L, Mohan S, Pandita A, Zha J, Jackson PK, O'Brien T. Chk1 inhibition in p53-deficient cell lines drives rapid chromosome fragmentation followed by caspase-independent cell death. Cell Cycle. 2014;13(2):303-14. doi: 10.4161/cc.27055. Epub 2013 Feb 1. PubMed PMID: 24247149; PubMed Central PMCID: PMC3906246.

Xiao Y, Ramiscal J, Kowanetz K, Del Nagro C, Malek S, Evangelista M, Blackwood E, Jackson PK, O'Brien T. Identification of preferred chemotherapeutics for combining with a CHK1 inhibitor. Mol Cancer Ther. 2013 Nov;12(11):2285-95. doi: 10.1158/1535-7163.MCT-13-0404. Epub 2013 Sep 13. PubMed PMID: 24038068.