

GDC0575 monohydrochloride

Chemical Properties

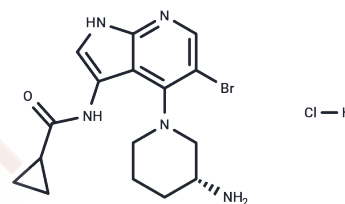
CAS No. : 1196504-54-7

Formula: C₁₆H₂₁BrClN₅O

Molecular Weight: 414.73

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	GDC0575 monohydrochloride (ARRY575) is a potent and selective inhibitor of cell cycle checkpoint kinase 1 (Chk1) with an IC ₅₀ of 1.2nM. GDC-0575 specifically binds to and inhibits Chk1; this may result in tumor cells bypassing Chk1-dependent cell cycle arrest in the S and G2/M phases, which permits the cells to undergo DNA repair prior to entry into mitosis.
Targets(IC50)	Chk

Solubility Information

Solubility	DMSO: 60 mg/mL (144.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4112 mL	12.056 mL	24.1121 mL
5 mM	0.4822 mL	2.4112 mL	4.8224 mL
10 mM	0.2411 mL	1.2056 mL	2.4112 mL
50 mM	0.0482 mL	0.2411 mL	0.4822 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

Grellety T, et al. Enhancing Abiraterone Acetate Efficacy in Androgen Receptor-positive Triple-negative Breast Cancer: Chk1 as a Potential Target. *Clin Cancer Res.* 2019 Jan 15;25(2):856-867.

Italiano A, et al. Phase I study of the checkpoint kinase 1 inhibitor GDC-0575 in combination with gemcitabine in patients with refractory solid tumors. *Ann Oncol.* 2018 May 1;29(5):1304-1311.

Oo ZY, Stevenson AJ, Proctor M, Daignault SM, Walpole S, Lanagan C, Chen J, Škalamera D, Spoerri L, Ainger SA, Sturm RA, Haass NK, Gabrielli B. Endogenous Replication Stress Marks Melanomas Sensitive to CHEK1 Inhibitors In Vivo. *Clin Cancer Res.* 2018 Jun 15;24(12):2901-2912. doi: 10.1158/1078-0432.CCR-17-2701. Epub 2018 Mar 13. PubMed PMID: 29535131.

Laroche-Clary A, Lucchesi C, Rey C, Verbeke S, Bourdon A, Chaire V, Algéo MP, Cousin S, Toulmonde M, Vélasco V, Shutzman J, Savina A, Le Loarer F, Italiano A. CHK1 inhibition in soft-tissue sarcomas: biological and clinical implications. *Ann Oncol.* 2018 Apr 1;29(4):1023-1029. doi: 10.1093/annonc/mdy039. PubMed PMID: 29409053.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481