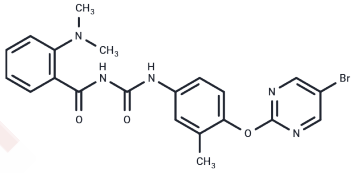
Data Sheet (Cat.No.T24553)

TargetMol

NSC-639829

Chemical Properties



CAS No. : 134742-19-1

Formula: C21H20BrN5O3

Molecular Weight: 470.32

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	NSC-639829 is an anti-tumor compound that requires a solubilizing agent for dissolution.
Targets(IC50)	Apoptosis,Others
In vitro	NSCLC cells grown for 24 h in medium containing NSC-639829 at concentrations from 0.2 to 10 M showed a biphasic dose-dependent reduction of survival as measured by colony formation assays. Thus, a maximally effective NSC-639829 concentration, which happens to approximate IC50 (1.5 μM for 24 h), was selected for combined treatments. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1262 mL	10.6311 mL	21.2621 mL
5 mM	0.4252 mL	2.1262 mL	4.2524 mL
10 mM	0.2126 mL	1.0631 mL	2.1262 mL
50 mM	0.0425 mL	0.2126 mL	0.4252 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

Balcer-Kubiczek EK, et al. The synergistic effect of dimethylamino benzoylphenylurea (NSC #639829) and X-irradiation on human lung carcinoma cell lines. Cancer Chemother Pharmacol. 2007 May;59(6):781-7.

Rao VM, Nerurkar M, Pinnamaneni S, Rinaldi F, Raghavan K. Co-solubilization of poorly soluble drugs by micellization and complexation. Int J Pharm. 2006 Aug 17;319(1-2):98-106. Epub 2006 Apr 7. PubMed PMID: 16765542.

Hallur G, Jimeno A, Dalrymple S, Zhu T, Jung MK, Hidalgo M, Isaacs JT, Sukumar S, Hamel E, Khan SR. Benzoylphenylurea sulfur analogues with potent antitumor activity. J Med Chem. 2006 Apr 6;49(7):2357-60. PubMed PMID: 16570932.

Jain A, Sanghvi T, Yalkowsky SH. Liposome formulation of NSC-639829 using halothane as a solvent: a technical note. AAPS PharmSciTech. 2003 Oct 15;4(4):E52. PubMed PMID: 15198547; PubMed Central PMCID: PMC2750645.