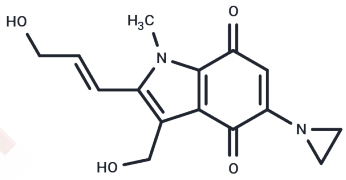
Data Sheet (Cat.No.T21316)

TargetMol

Apaziquone

Chemical Properties



CAS No. : 114560-48-4

Formula: C15H16N2O4

Molecular Weight: 288.30

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	Apaziquone has potential antineoplastic and radiosensitization activities. It is converted to active metabolites in hypoxic cells by intracellular reductases, which are present in greater amounts in hypoxic tumor cells. The active metabolites alkylate DNA, resulting in apoptotic cell death.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Soluble, H2O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4686 mL	17.343 mL	34.6861 mL
5 mM	0.6937 mL	3.4686 mL	6.9372 mL
10 mM	0.3469 mL	1.7343 mL	3.4686 mL
50 mM	0.0694 mL	0.3469 mL	0.6937 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

Phillips RM, Hendriks HR, Peters GJ; EORTC-Pharmacology and Molecular Mechanism Group. EO9 (Apaziquone): from the clinic to the laboratory and back again. Br J Pharmacol. 2013 Jan;168(1):11-8. doi: 10.1111/j.1476-5381.2012.01996.x. Review. PubMed PMID: 22509926; PubMed Central PMCID: PMC3569998.

Hendricksen K, Cornel EB, de Reijke TM, Arentsen HC, Chawla S, Witjes JA. Phase 2 study of adjuvant intravesical instillations of apaziquone for high risk nonmuscle invasive bladder cancer. J Urol. 2012 Apr;187(4):1195-9. doi: 10.1016/j.juro.2011.11.101. Epub 2012 Feb 14. PubMed PMID: 22335860.

Yutkin V, Chin J. Apaziquone as an intravesical therapeutic agent for urothelial non-muscle-invasive bladder cancer. Expert Opin Investig Drugs. 2012 Feb;21(2):251-60. doi: 10.1517/13543784.2012.646081. Epub 2011 Dec 21. Review. PubMed PMID: 22188461.

Arentsen HC, Hendricksen K, Hulsbergen-van de Kaa CA, Reddy G, Oosterwijk E, Alfred Witjes J. The orthotopic Fischer/AY-27 rat bladder urothelial cell carcinoma model to test the efficacy of different apaziquone formulations. Urol Oncol. 2012 Jan-Feb;30(1):64-8. doi: 10.1016/j.urolonc.2009.10.002. Epub 2009 Nov 27. PubMed PMID: 19945311.