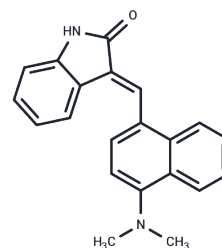


MAZ51

Chemical Properties

CAS No. :	163655-37-6
Formula:	C ₂₁ H ₁₈ N ₂ O
Molecular Weight:	314.38
Storage:	Powder: -20°C for 3 years Actual storage temperature shall be subject to the COA.



Biological Description

Description	MAZ51 is a VEGFR-3 (Flt-4) tyrosine kinase inhibitor.
Targets(IC50)	Apoptosis, VEGFR
In vitro	MAZ51 is able to block the proliferation of VEGFR-3-expressing human endothelial cells and is less potently able to induce their apoptosis. MAZ51 also inhibits the proliferation and induces the apoptosis of a variety of non-VEGFR-3-expressing tumor cell lines[1].
In vivo	In vivo, MAZ51 significantly inhibits the growth of rat mammary carcinomas. These data establish MAZ51 as a compound with antitumor properties that inhibits tumor growth directly and also indirectly by interfering with tumor-host interactions[1].

Solubility Information

Solubility	DMSO: 3.33 mg/mL (10.59 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1809 mL	15.9043 mL	31.8086 mL
5 mM	0.6362 mL	3.1809 mL	6.3617 mL
10 mM	0.3181 mL	1.5904 mL	3.1809 mL
50 mM	0.0636 mL	0.3181 mL	0.6362 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

Kirkin V, et al. MAZ51, an indolinone that inhibits endothelial cell and tumor cell growth in vitro, suppresses tumor growth in vivo. *Int J Cancer*. 2004 Dec 20;112(6):986-93.

Kirkin V, et al. Characterization of indolinones which preferentially inhibit VEGF-C- and VEGF-D-induced activation of VEGFR-3 rather than VEGFR-2. *Eur J Biochem*. 2001 Nov;268(21):5530-40.

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