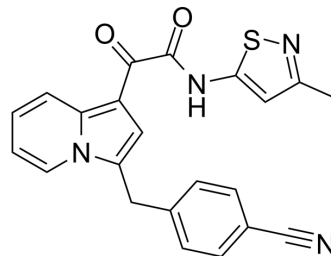


Rosabulin

Cat. No.:	HY-14934		
CAS No.:	501948-05-6		
Molecular Formula:	C ₂₂ H ₁₆ N ₄ O ₂ S		
Molecular Weight:	400.45		
Target:	Microtubule/Tubulin		
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (124.86 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4972 mL	12.4860 mL	24.9719 mL
	5 mM	0.4994 mL	2.4972 mL	4.9944 mL
	10 mM	0.2497 mL	1.2486 mL	2.4972 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Rosabulin (STA 5312) is a potent and orally active microtubule inhibitor that inhibits microtubule assembly. Rosabulin has broad-spectrum anti-tumor activity^[1].

In Vitro

Rosabulin (STA 5312) demonstrates substantial anti-proliferative activity against a wide range of cancer cell lines in vitro, including hematologic and solid tumor cell lines of various origins (e.g. leukemia, lymphoma, breast, colon, uterine), with IC₅₀ values extending down into the nanomolar range. Cell lines with multi-drug resistant (MDR) phenotypes are similarly sensitive to Rosabulin. The mechanism of action for Rosabulin is inhibition of microtubule assembly and subsequent arrest of the cell cycle^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

When dosed orally or intravenously, Rosabulin (STA 5312) has shown in vivo activity in several murine tumors as well as human tumor xenograft models, including drug resistant tumors^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Keizo Koya, et al. STA-5312, a novel tubulin inhibitor, demonstrates the anti-cancer activity against chemotherapy-resistant cancers. Cancer Res, Volume 45, 2004.

Caution: Product has not been fully validated for medical applications. For research use only.

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