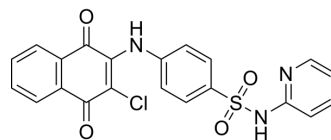


BC-23

Cat. No.:	HY-119288		
CAS No.:	6298-15-3		
Molecular Formula:	C ₂₁ H ₁₄ ClN ₃ O ₄ S		
Molecular Weight:	439.87		
Target:	Proteasome		
Pathway:	Metabolic Enzyme/Protease		
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 : 25 mg/mL (56.83 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.2734 mL	11.3670 mL	22.7340 mL
5 mM	0.4547 mL	2.2734 mL	4.5468 mL
10 mM	0.2273 mL	1.1367 mL	2.2734 mL

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

BIOLOGICAL ACTIVITY

Description

BC-23 (NSC 45382) is a proteasome inhibitor. BC-23 exhibits good inhibition of CT-L activity of the proteasome and is selective for malignant over normal cells^{[1][2]}.

REFERENCES

[1]. Lawrence HR, et, al. Synthesis and biological evaluation of naphthoquinone analogs as a novel class of proteasome inhibitors. *Bioorg Med Chem.* 2010 Aug 1;18(15):5576-92.

[2]. Zhang Q, et, al. Enhancement of Radiation Sensitivity in Lung Cancer Cells by a Novel Small Molecule Inhibitor That Targets the β -Catenin/Tcf4 Interaction. *PLoS One.* 2016 Mar 25;11(3):e0152407.

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

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