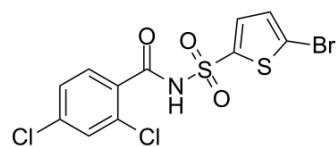


Tasisulam

Cat. No.:	HY-14804		
CAS No.:	519055-62-0		
Molecular Formula:	C ₁₁ H ₆ BrCl ₂ NO ₃ S ₂		
Molecular Weight:	415.11		
Target:	Apoptosis		
Pathway:	Apoptosis		
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 : 250 mg/mL (602.25 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.4090 mL	12.0450 mL	24.0900 mL
	5 mM	0.4818 mL	2.4090 mL	4.8180 mL
	10 mM	0.2409 mL	1.2045 mL	2.4090 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.01 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.01 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.01 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Tasisulam is a anticancer agent and induces apoptosis via the intrinsic pathway, resulting in cytochrome c release and caspase-dependent cell death. Tasisulam inhibits mitotic progression and induces vascular normalization ^[1] .
In Vitro	<p>Tasisulam (200 nM-200 μM; 48 hours) induces an antiproliferative response across a wide range of tumor histologies with EC₅₀s of 10 μM and 25 μM for Calu-6 and A-375 cell lines, respectively^[1].</p> <p>Tasisulam (25, 50 μM; 72 hours) induces a concentration-dependent increase in 4N DNA and G2-M accumulation^[1].</p> <p>Tasisulam (200 nM-200 μM; 48 hours) induces apoptosis in a broad range of in vitro cancer cell models^[1].</p>

Tasisulam also blocks VEGF, epidermal growth factor, and fibroblast growth factor-induced endothelial cell cord formation [1].

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

Cell Proliferation Assay^[1]

Cell Line:	Calu-6 non-small cell lung carcinoma and A-375 melanoma models
Concentration:	200 nM-200 μ M
Incubation Time:	48 hours
Result:	Induced an antiproliferative response across a wide range of tumor histologies with EC ₅₀ s are 10 μ M and 25 μ M, respectively.

Cell Cycle Analysis^[1]

Cell Line:	Calu-6 and A-375 cell lines
Concentration:	25, 50 μ M
Incubation Time:	72 hours
Result:	Induced a concentration-dependent increase in 4N DNA and G2-M accumulation.

Apoptosis Analysis^[1]

Cell Line:	Calu-6 non-small cell lung carcinoma and A-375 melanoma models
Concentration:	200 nM-200 μ M
Incubation Time:	48 hours
Result:	Induced apoptosis in a broad range of in vitro cancer cell models.

REFERENCES

[1]. Meier T, et al. Tasisulam sodium, an antitumor agent that inhibits mitotic progression and induces vascular normalization. Mol Cancer Ther. 2011 Nov;10(11):2168-78.

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

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