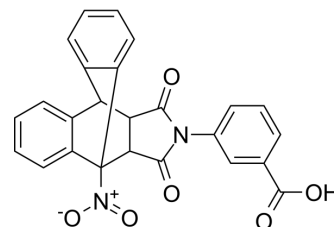


S100P-IN-1

Cat. No.:	HY-146695
CAS No.:	690991-06-1
Molecular Formula:	C ₂₅ H ₁₆ N ₂ O ₆
Molecular Weight:	440.4
Target:	Others
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (227.07 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.2707 mL	11.3533 mL	22.7066 mL
5 mM		0.4541 mL	2.2707 mL	4.5413 mL	
	10 mM	0.2271 mL	1.1353 mL	2.2707 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.68 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.68 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	S100P-IN-1 (Compound 4) is a S100P inhibitor with an IC ₅₀ of 22.7 nM. S100P-IN-1 shows anti-metastatic effects on pancreatic cancer cells ^[1] .
IC₅₀ & Target	IC ₅₀ : 22.7 nM (S100P) ^[1]
In Vitro	S100P-IN-1 (Compound 4) blocks S100P binding to RAGE in a dose dependent manner ^[1] . S100P-IN-1 (10 μM, 24 h) shows S100P-specific inhibitory effect on cell invasion, without obvious cytotoxicity ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Invasion Assay ^[1]

Cell Line:	Human pancreatic cancer cell lines PanC-1 (ATCC- CRL-1469), and BxPC-3 (ATCC-CRL-1687)
Concentration:	10 μ M
Incubation Time:	48 h
Result:	Significantly inhibited invasion to the lower chamber in BxPC-3 cells, but didn't inhibit invasion of PanC-1 (lack S100P expression) cells.
Cell Viability Assay ^[1]	
Cell Line:	BxPC-3 and Panc-1 cells
Concentration:	10 μ M
Incubation Time:	24 h
Result:	Showed no significant effect on cell metabolic activity and cytotoxicity in either cell line.

REFERENCES

[1]. Ramatoulie Camara, et al. Discovery of novel small molecule inhibitors of S100P with in vitro anti-metastatic effects on pancreatic cancer cells. Eur J Med Chem. 2020 Oct 1;203:112621.

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

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