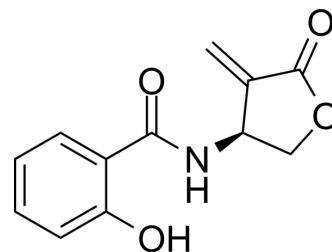


SEMBL

Cat. No.:	HY-124651		
CAS No.:	1443448-82-5		
Molecular Formula:	C ₁₂ H ₁₁ NO ₄		
Molecular Weight:	233.22		
Target:	NF-κB; MMP		
Pathway:	NF-κB; 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 : 100 mg/mL (428.78 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.2878 mL	21.4390 mL	42.8780 mL
		5 mM	0.8576 mL	4.2878 mL	8.5756 mL
10 mM		0.4288 mL	2.1439 mL	4.2878 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: ≥ 2.5 mg/mL (10.72 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.72 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.72 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	SEMBL is a potent NF-κB inhibitor. SEMBL can inhibit NF-κB-DNA binding, and also inhibits NF-κB-dependent inflammatory cytokine secretions. SEMBL inhibits cancer cell migration and invasion via decreasing MMP expression. SEMBL can be used for researching anticancer ^[1] .
IC₅₀ & Target	NF-κB, MMP-2 ^[1]
In Vitro	SEMBL inhibits MMP-2 expression and cellular metastatic activity in ovarian carcinoma cells ^[1] .

SEMBL inhibits the cell-free DNA binding of NF- κ B in the ES-2 nuclear extract and inhibits the constitutively activated NF- κ B activity in ovarian carcinoma cells^[1].

SEMBL inhibits cellular migration, invasion and MMP-2 expression in ovarian carcinoma cells at non-toxic concentrations^[1].

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

REFERENCES

[1]. Umezawa K, et al. Inhibition of matrix metalloproteinase expression and cellular invasion by NF- κ B inhibitors of microbial origin. *Biochim Biophys Acta Proteins Proteom.* 2020;1868(6):140412.

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

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