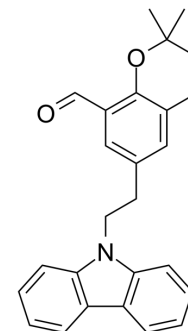


BJE6-106

Cat. No.:	HY-117800		
CAS No.:	1564249-38-2		
Molecular Formula:	C ₂₆ H ₂₃ NO ₂		
Molecular Weight:	381.47		
Target:	PKC; Apoptosis		
Pathway:	Epigenetics; TGF-beta/Smad; 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 : 50 mg/mL (131.07 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.6214 mL	13.1072 mL	26.2144 mL
		5 mM	0.5243 mL	2.6214 mL	5.2429 mL
10 mM		0.2621 mL	1.3107 mL	2.6214 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 >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.55 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.55 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	BJE6-106 (B106) is a potent, selective 3 rd generation PKCδ inhibitor with an IC ₅₀ of 0.05 μM and targets selectivity over classical PKC isozyme PKCα (IC ₅₀ =50 μM). BJE6-106 (B106) induces caspase-dependent apoptosis. BJE6-106 (B106) possesses tumor-specific effect.	
IC₅₀ & Target	PKCδ 0.05 μM (IC ₅₀)	PKCα 50 μM (IC ₅₀)
In Vitro	BJE6-106 (B106) (0.2 μM, 0.5 μM; 24-72 hours) suppresses cell survival in melanoma cell lines with NRAS mutations ^[1] . BJE6-106 (B106) (0.2 μM, 0.5 μM; 6-24 hours) triggers caspase-dependent apoptosis, increases the activity of caspase 3/7, the effect of B106 is greater than rottlerin (10-fold) in SBcl2 cells ^[1] .	

BJE6-106 (B106) (0.5 μ M; 2-10 hours) activates the MKK4-JNK-H2AX Pathway by inducing MKK4, JNK and H2AX activation at different times in SBcl2 cells^[1].

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

Cell Viability Assay^[1]

Cell Line:	Melanoma cell lines with NRAS mutations: SBcl2, FM6, SKMEL2, WM1366, WM1361A, and WM852 cells
Concentration:	0.2 μ M, 0.5 μ M
Incubation Time:	24 hours, 48 hours, or 72 hours
Result:	Inhibited cell survival in melanoma cell lines.

Apoptosis Analysis^[1]

Cell Line:	SBcl2 cells
Concentration:	0.2 μ M, 0.5 μ M
Incubation Time:	6 hours, 12 hours, or 24 hours
Result:	Induced caspase 3/7 activation.

Western Blot Analysis^[1]

Cell Line:	SBcl2 cells
Concentration:	0.2 μ M, 0.5 μ M
Incubation Time:	2 hours, 5 hours, 10 hours
Result:	Increased phosphorylation of MKK4, JNK and H2AX.

REFERENCES

[1]. Takashima A, et al. Protein kinase C δ is a therapeutic target in malignant melanoma with NRAS mutation. ACS Chem Biol. 2014 Apr 18;9(4):1003-14.

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

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