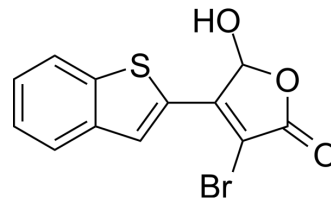


CAY10526

Cat. No.:	HY-118119
CAS No.:	938069-71-7
Molecular Formula:	C ₁₂ H ₇ BrO ₃ S
Molecular Weight:	311.15
Target:	PGE synthase
Pathway:	Immunology/Inflammation
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 : 66.67 mg/mL (214.27 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.2139 mL	16.0694 mL	32.1388 mL
		5 mM	0.6428 mL	3.2139 mL	6.4278 mL
10 mM		0.3214 mL	1.6069 mL	3.2139 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (8.03 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	CAY10526 is a specific microsomal PGE2 synthase-1 (mPGES1) inhibitor. CAY10526 inhibits PGE2 production through the selective modulation of mPGES1 expression but does not affect COX-2. CAY10526 significantly suppresses tumor growth and increases apoptosis in melanoma xenografts. CAY10526 reduces BCL-2 and BCL-XL (anti-apoptotic) protein levels and increases BAX and BAK (pro-apoptotic) as well as cleaved caspase 3 levels. CAY10526 inhibits cell viability (IC ₅₀ <5 μM) in three melanoma cell lines expressing mPGES1 ^[1] .
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REFERENCES

[1]. Sun-Hee Kim, et al. Microsomal PGE2 synthase-1 regulates melanoma cell survival and associates with melanoma disease progression. *Pigment Cell Melanoma Res.* 2016 May;29(3):297-308.

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

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