Sparstolonin B

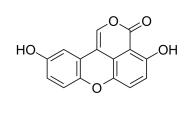
Cat. No.:	HY-116213		
CAS No.:	1259330-61	4	
Molecular Formula:	$C_{15}H_8O_5$		
Molecular Weight:	268.22		
Target:	Toll-like Re	ceptor (T	LR); HIV
Pathway:	Immunolog	gy/Inflam	mation; Anti-infection
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.7283 mL	18.6414 mL	37.2828 mL
		5 mM	0.7457 mL	3.7283 mL	7.4566 mL
		10 mM	0.3728 mL	1.8641 mL	3.7283 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		

BIOLOGICAL ACTIV	ИТҮ		
Description	1	tive TLR2 and TLR4 antagonist a anti-HIV and anticancer activitie	and selectively blocks TLR2- and TLR4-mediated inflammatory $e^{[1][2]}$.
IC ₅₀ & Target	TLR2	TLR4	HIV-1
In Vitro	Sparstolonin B inhibits TLR lig recruitment to TLR4 and TLR2 Sparstolonin B generates reac in neuroblastoma cells ^[3] .	rand-induced cytokine expressi [1] ctive oxygen species (ROS) in ne	ability of neuroblastoma cells ^[3] . on in mouse macrophages. Sparstolonin B inhibits MyD88 uroblastoma cells. Sparstolonin B reduces expression of N-myc methods. They are for reference only.

Product Data Sheet



	Cell Line:	SH-SY5Y, IMR-32, NGP, SKNF-1 and SK-N-BE(2) cells
	Concentration:	1 μM, 5 μM, 10 μM or 20 μM
	Incubation Time:	2-4 days
	Result:	Effectively and dose-dependently inhibits the viability of all neuroblastoma cell lines after 2 days (SH-SY5Y and IMR-32), 3 days (NGP cells) or 4 days (SKNF-1 and SK-N-BE(2) cells)
		treatment.
ı Vivo		/mouse; i.p.) suppresses LPS-provoked inflammation in mice ^[1] . ently confirmed the accuracy of these methods. They are for reference only.
ı Vivo		/mouse; i.p.) suppresses LPS-provoked inflammation in mice ^[1] .
ı Vivo	MCE has not independe	/mouse; i.p.) suppresses LPS-provoked inflammation in mice ^[1] . ently confirmed the accuracy of these methods. They are for reference only.
ı Vivo	MCE has not independe Animal Model:	/mouse; i.p.) suppresses LPS-provoked inflammation in mice ^[1] . ently confirmed the accuracy of these methods. They are for reference only. 5-6-week-old male C57Bl/6 mice (body weight 18-20 g) ^[1]

CUSTOMER VALIDATION

- Biofactors. 2021 Aug 2.
- Exp Cell Res. 2022 May 18;417(1):113214.
- World J Surg Oncol. 2022 Aug 25;20(1):266.

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REFERENCES

[1]. Liang Q, et al. Characterization of sparstolonin B, a Chinese herb-derived compound, as a selective Toll-like receptor antagonist with potent anti-inflammatory properties. J Biol Chem. 2011;286(30):26470-26479.

[2]. Deng X, et al. The Chinese herb-derived Sparstolonin B suppresses HIV-1 transcription. Virol J. 2015;12:108. Published 2015 Jul 25.

[3]. Kumar A, et al. Sparstolonin B, a novel plant derived compound, arrests cell cycle and induces apoptosis in N-myc amplified and N-myc nonamplified neuroblastoma cells [published correction appears in PLoS One. 2016;11(7):e0159082]. PLoS One. 2014;9(5):e96

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

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