

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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Zuschläge

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A-192621

295		
54-5		
2 ⁰ 6		
Endothelin Receptor; Apoptosis		
GPCR/G Protein; Apoptosis		
-20°C 3 years		
4°C 2 years		
nt -80°C 6 months		
-20°C 1 month		
22	O ₆ lin Receptor; Apoptosis Protein; Apoptosis -20°C 3 years 4°C 2 years nt -80°C 6 months	

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MedChemExpress

SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	1.7900 mL	8.9500 mL	17.9000 mL
		5 mM	0.3580 mL	1.7900 mL	3.5800 mL
		10 mM	0.1790 mL	0.8950 mL	1.7900 mL
	Please refer to the sc	lubility information to select the app	propriate solvent.		

BIOLOGICAL ACTIV	ITY				
Description	A-192621 is a potent, nonpeptide, orally active and selective endothelin B (ET _B) receptor antagonist with an IC ₅₀ of 4.5 nM and a K _i of 8.8 nM. The selectivity of A-192621 is 636-fold higher than ET _A (IC ₅₀ of 4280 nM and K _i of 5600 nM). A-192621 promotes apoptosis in PASMCs. A-192621 alos causes elevation of arterial blood pressure and an elevation in the plasma ET-1 level ^{[1][2][3]} .				
IC ₅₀ & Target	ET _B 4.5 nM (IC ₅₀)	ET _B 8.8 nM (Ki)	ET _A 4280 nM (IC ₅₀)	ET _A 5600 nM (Ki)	
In Vitro	A-192621 (1-100 μM; 48 hours; PASMCs) treatment markedly reduces the cell viability of PASMCs in a dose-dependent manner ^[2] . A-192621 (1-100 μM; 48 hours; PASMCs) treatment significantly increases the caspase-3/7 activity and cleaved caspase-3				

Product Data Sheet

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	apoptosis by Doxorubic	expression in PASMCs. A-192621 induces apoptosis in a dose-dependent manner and increases the cells' susceptibility apoptosis by Doxorubicin treatment ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[2]				
	Cell Line:	Pulmonary arterial smooth muscle cells (PASMCs) with Doxorubicin				
	Concentration:	1 μΜ, 10 μΜ, 50 μΜ, 100 μΜ				
	Incubation Time:	72 hours				
	Result:	The viability of PASMCs was significantly decreased in a dose-dependent manner.				
	Western Blot Analysis ^[2]	Western Blot Analysis ^[2]				
	Cell Line:	Pulmonary arterial smooth muscle cells (PASMCs) with Doxorubicin				
	Concentration:	1 μΜ, 10 μΜ, 100 μΜ				
	Incubation Time:	72 hours				
	Result:	The caspase-3/7 activity in PASMCs was significantly increased in a dose-dependent manner.				
In Vivo	and pressor responses i induced pressor respon the plasma ET-1 level in	g; oral administration; daily; for 3 days; male Sprague-Dawley rats) treatment inhibits both dilatory nduced by S6c mediated by ET _B with an ED ₅₀ value of 30 mg/kg, and failed to inhibit the ET-1-se mediated by ET _A . A-192621 alone causes elevation of arterial blood pressure and an elevation in the conscious normotensive rat ^[3] . ntly confirmed the accuracy of these methods. They are for reference only.				
	Animal Model:	Male Sprague-Dawley rats (250-350 g) ^[3]				
	Dosage:	30 mg/kg 100 mg/kg				
	Administration:	Oral administration; daily; for 3 days				
	Result:	Inhibited both dilatory and pressor responses induced by S6c mediated by ET_B with an ED $_{50}$ value of 30 mg/kg.				

REFERENCES

[1]. Wu-Wong JR, et al. Pharmacology of endothelin receptor antagonists ABT-627, ABT-546, A-182086 and A-192621: in vitro studies. Clin Sci (Lond). 2002 Aug;103 Suppl 48:107S-111S.

[2]. Sakai S, et al. Antagonists to endothelin receptor type B promote apoptosis in human pulmonary arterial smooth muscle cells. Life Sci. 2016 Aug 15;159:116-120.

[3]. Wessale JL, et al. Pharmacology of endothelin receptor antagonists ABT-627, ABT-546, A-182086 and A-192621: ex vivo and in vivo studies. Clin Sci (Lond). 2002 Aug;103 Suppl 48:112S-117S.

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

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