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Zuschläge

- Mindermengenzuschlag
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SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

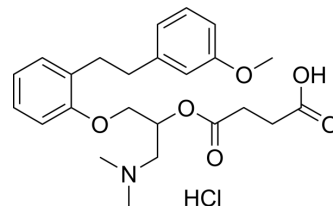
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Sarpogrelate hydrochloride

Cat. No.:	HY-10564
CAS No.:	135159-51-2
Molecular Formula:	C ₂₄ H ₃₂ ClNO ₆
Molecular Weight:	465.97
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 62 mg/mL (133.06 mM)
H₂O : 33.33 mg/mL (71.53 mM; Need ultrasonic)
* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.1461 mL	10.7303 mL	21.4606 mL
	5 mM		0.4292 mL	2.1461 mL	4.2921 mL
	10 mM		0.2146 mL	1.0730 mL	2.1461 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 10 mg/mL (21.46 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.37 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (5.37 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.37 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sarpogrelate hydrochloride (MCI-9042) is a selective 5-HT₂R antagonist, with pK_is of 8.52, 6.57, and 7.43 for 5-HT_{2A}, 5-HT_{2B}, and 5-HT_{2C} receptors, respectively. Sarpogrelate hydrochloride displays selectivity over 5-HT₁, 5-HT₃, 5-HT₄, α₁-, α₂- and β-adrenoreceptor, histamine H₁, H₂ and muscarinic M₃ receptors. Sarpogrelate hydrochloride can be used for the research of vascular disease associated with thrombosis^{[1][2][3]}.

IC ₅₀ & Target	5-HT _{2A} Receptor 8.52 (pKi)	5-HT _{2B} Receptor 6.57 (pKi)	5-HT _{2C} Receptor 7.43 (pKi)								
In Vitro	Sarpogrelate is selective for 5-HT₂ (pK_i=7.54) over 5-HT₁ (pK_i=4.58), α₁-, α₂-, and β-adrenergic (pK_i=3.17-6.19), and muscarinic receptors (pK_i=4.39)^[2]. Sarpogrelate (10 μM) significantly reduces the number of platelet-rich plasma (PRP)-induced THP-1 cell that adheres to human umbilical vein endothelial cells (HUVECs)^[3]. Sarpogrelate (10 μM) significantly reduces the expression of PRP-induced E-selectin in HUVECs^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.										
In Vivo	Sarpogrelate (5 mg/kg; i.p. daily for 4 weeks) inhibits HFFD-induced obesity and decreases leukocyte-endothelial interactions in mice^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. <table><tr><td>Animal Model:</td><td>Male C57BL/6 mice (7 weeks old) are fed normal chow (NC) or a high-fat diet with 30% fructose in the drinking water (HFFD)^[3]</td></tr><tr><td>Dosage:</td><td>5 mg/kg</td></tr><tr><td>Administration:</td><td>I.p. daily for 4 weeks</td></tr><tr><td>Result:</td><td>Prevented the HFFD-induced increases of the body weight, visceral fat weight, and serum monocyte chemoattractant protein-1 levels. Decreased leukocyte-endothelial interactions and serum monocyte chemoattractant protein-1 (MCP-1) level.</td></tr></table>			Animal Model:	Male C57BL/6 mice (7 weeks old) are fed normal chow (NC) or a high-fat diet with 30% fructose in the drinking water (HFFD) ^[3]	Dosage:	5 mg/kg	Administration:	I.p. daily for 4 weeks	Result:	Prevented the HFFD-induced increases of the body weight, visceral fat weight, and serum monocyte chemoattractant protein-1 levels. Decreased leukocyte-endothelial interactions and serum monocyte chemoattractant protein-1 (MCP-1) level.
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CUSTOMER VALIDATION

- Exp Neurol. 2019 Nov;321:113030.

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REFERENCES

- [1]. Rashid M, et al. Identification of the binding sites and selectivity of sarpogrelate, a novel 5-HT₂ antagonist, to human 5-HT_{2A}, 5-HT_{2B} and 5-HT_{2C} receptor subtypes by molecular modeling. Life Sci. 2003 May 30;73(2):193-207.
- [2]. Maruyama K, et al. MCI-9042: high affinity for serotonergic receptors as assessed by radioligand binding assay. J Pharmacobiodyn. 1991 Apr;14(4):177-81.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA