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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

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

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

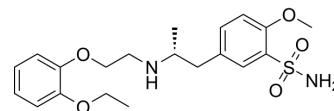
mail@szabo-scandic.com

www.szabo-scandic.com

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

Tamsulosin

Cat. No.:	HY-B0661		
CAS No.:	106133-20-4		
Molecular Formula:	C ₂₀ H ₂₈ N ₂ O ₅ S		
Molecular Weight:	408.51		
Target:	Adrenergic Receptor; Endogenous Metabolite		
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (244.79 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.4479 mL	12.2396 mL	24.4792 mL
		5 mM		0.4896 mL	2.4479 mL	4.8958 mL
10 mM			0.2448 mL	1.2240 mL	2.4479 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.12 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.12 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.12 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Tamsulosin ((R)-(-)-YM12617 free base) is an inhibitor of α ₁ -adrenergic receptor. Tamsulosin is used for the research of prostatic hyperplasia. Tamsulosin attenuates abdominal aortic aneurysm growth in animal models ^[1] .
IC ₅₀ & Target	α ₁ -adrenergic receptor

REFERENCES

[1]. Christopher Chapple, et al. Tamsulosin: an overview. World J Urol. 2002 Apr;19(6):397-404.

[2]. William G. Montgomery, BA, et al. Tamsulosin Attenuates Abdominal Aortic Aneurysm Growth. Surgery. 2018 Nov; 164(5): 1087-1092.

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