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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

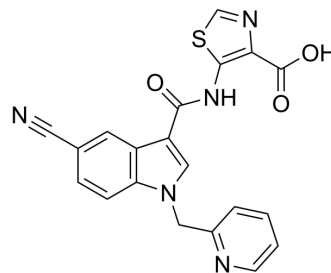
mail@szabo-scandic.com

www.szabo-scandic.com

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

URAT1&XO inhibitor 1

Cat. No.:	HY-153968		
CAS No.:	2669726-78-5		
Molecular Formula:	C ₂₀ H ₁₃ N ₅ O ₃ S		
Molecular Weight:	403.41		
Target:	Xanthine Oxidase; URAT1		
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (247.89 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.4789 mL	12.3943 mL	24.7887 mL
		5 mM		0.4958 mL	2.4789 mL	4.9577 mL
10 mM			0.2479 mL	1.2394 mL	2.4789 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 (6.20 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.20 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	URAT1&XO inhibitor 1 (compound 29) is a dual inhibitor of both URAT1 (IC ₅₀ ~10 μM) and Xanthine Oxidase (IC ₅₀ =1.01 μM). URAT1&XO inhibitor 1 results hypouricemic effect in potassium oxonate-induced hyperuricemia rat model. URAT1&XO inhibitor 1 is used for hyperuricemia research ^[1] .
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REFERENCES

[1]. Fengwei Lin, et al. Identification of 5-[5-cyano-1-(pyridin-2-ylmethyl)-1H-indole-3-carboxamido] thiazole-4-carboxylic acid as a promising dual inhibitor of urate transporter 1 and xanthine oxidase. European Journal of Medicinal Chemistry. Volume 257, 5 September 2023, 115532.

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