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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

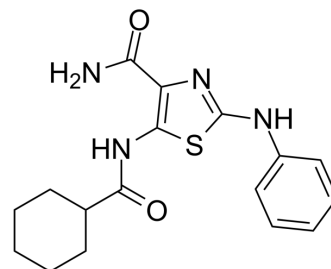
mail@szabo-scandic.com

www.szabo-scandic.com

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

UNC3230

Cat. No.:	HY-110150
CAS No.:	1031602-63-7
Molecular Formula:	C ₁₇ H ₂₀ N ₄ O ₂ S
Molecular Weight:	344.43
Target:	Others
Pathway:	Others
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 : 125 mg/mL (362.92 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.9033 mL	14.5167 mL	29.0335 mL
		5 mM		0.5807 mL	2.9033 mL	5.8067 mL
		10 mM		0.2903 mL	1.4517 mL	2.9033 mL
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.04 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	UNC3230 is a potent, selective and ATP-competitive PIP5K1C inhibitor with an IC ₅₀ of ~41 nM. UNC3230 also inhibits PIP4K2C and does not inhibit any of the other lipid kinases that regulate phosphoinositide levels. UNC3230 has antinociceptive and anticancer effects ^[1] .
IC ₅₀ & Target	IC ₅₀ : ~41 nM (Phosphatidylinositol 4-phosphate 5 kinase type 1C (PIP5K1C)) ^[1]
In Vitro	Membrane PIP2 levels are significantly reduced by ~45% in dorsal root ganglia (DRG) neurons treated with 100 nM UNC3230 (~2-fold above the IC ₅₀) relative to vehicle controls. UNC3230 significantly reduces lysophosphatidic acid (LPA)-evoked calcium signaling in cultured DRG neurons relative to vehicle ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	UNC3230 (2 nmol) significantly increases noxious heat-evoked paw withdrawal latency for two hours after intrathecal

injection in wild-type mice, indicating an antinociceptive effect^[1].

UNC3230 (2 nmol; intrathecal injection) is administered then one hour later co-injected 1 nmol LPA with UNC3230 (2 nmol, intrathecal injection). UNC3230 significantly blunts thermal hyperalgesia and mechanical allodynia compared to vehicle^[1]. UNC3230 (2 nmol; intrathecal injection) significantly blunts thermal hyperalgesia and mechanical allodynia in the complete Freund's adjuvant (CFA)-inflamed hindpaw (relative to vehicle control) but does not affect thermal or mechanical sensitivity in the control (non-inflamed) hindpaw over a multiday time course^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Extracell Vesicles. 2023 Apr;12(4):e12319.
- Breast Cancer Res. 2023 Oct 6;25(1):119.
- Cells. 2024 Jan 31;13(3):270.
- Int J Mol Sci. 2023 Sep 30, 24(19), 14786.
- bioRxiv. 2023 Feb 23.

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REFERENCES

[1]. Wright BD, et al. The lipid kinase PIP5K1C regulates pain signaling and sensitization. Neuron. 2014 May 21;82(4):836-47.

[2]. Peng W, et al. Type Iy phosphatidylinositol phosphate kinase promotes tumor growth by facilitating Warburg effect in colorectal cancer. EBioMedicine. 2019 Jun;44:375-386.

[3]. Wright BD, et al. Development of a High-Throughput Screening Assay to Identify Inhibitors of the Lipid Kinase PIP5K1C. J Biomol Screen. 2015 Jun;20(5):655-62.

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