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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

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

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

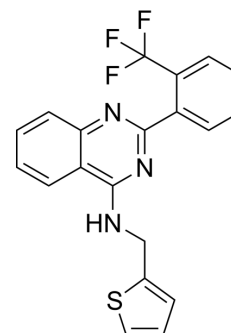
mail@szabo-scandic.com

www.szabo-scandic.com

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

NIH-12848

Cat. No.:	HY-101423		
CAS No.:	959551-10-1		
Molecular Formula:	C ₂₀ H ₁₄ F ₃ N ₃ S		
Molecular Weight:	385.41		
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 (259.46 mM)

* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.5946 mL	12.9732 mL	25.9464 mL
	5 mM		0.5189 mL	2.5946 mL	5.1893 mL
	10 mM		0.2595 mL	1.2973 mL	2.5946 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (6.49 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.49 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	NIH-12848 is a putative phosphatidylinositol 5-phosphate 4-kinase γ (PI5P4Kγ) inhibitor with an IC ₅₀ of 1 μM.
IC ₅₀ & Target	IC ₅₀ : 1 μM (PI5P4Kγ) ^[1]
In Vitro	NIH-12848 inhibits PI5P4Kγ with an IC₅₀ of approximately 1 μM but does not inhibit the α and β PI5P4K isoforms at concentrations up to 100 μM. NIH-12848 inhibits the translocation of Na⁺/K⁺-ATPase to the plasma membrane that occurs when mpkCCD cells grow to confluence and also prevents reversibly their forming of 'domes' on the culture dish. Both these NIH-12848-induced effects are mimicked by specific RNAi knockdown of PI5P4Kγ, but not that of PI5P4Ks α or β. NIH-12848 could be a potentially powerful tool for exploring the cell physiology of PI5P4Ks^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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