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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

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

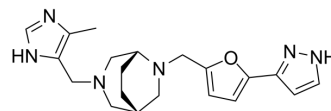
mail@szabo-scandic.com

www.szabo-scandic.com

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

DRP1i27

Cat. No.:	HY-152086
CAS No.:	1453028-33-5
Molecular Formula:	C ₂₀ H ₂₆ N ₆ O
Molecular Weight:	366.46
Target:	Dynamin
Pathway:	Cytoskeleton
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (272.88 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.7288 mL	13.6441 mL	27.2881 mL
		5 mM	0.5458 mL	2.7288 mL	5.4576 mL
	10 mM	0.2729 mL	1.3644 mL	2.7288 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.82 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.82 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	DRP1i27 is a potent inhibitor of human Drp1 (dynamin-related protein 1). DRP1i27 binds to the GTPase site of Drp1, with hydrogen bonds to Gln34 and Asp218. DRP1i27 targets Drp1-mediated mitochondrial fission in cell line models and protects against simulated ischemia-reperfusion injury ^[1] .
In Vitro	<p>DRP1i27 (0-50 μM) directly binds to and inhibits GTPase activity of human Drp1^[1].</p> <p>DRP1i27 (0-50 μM) is able to increase cellular networks of mitochondria in human and mouse fibroblasts in a Drp1-dependent manner^[1].</p> <p>DRP1i27 has a binding affinity of 286 μM in the SPR assay and a K_D value of 190 μM via the MST assay^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Rosdah AA, et al. A novel small molecule inhibitor of human Drp1. Sci Rep. 2022 Dec 13;12(1):21531.

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