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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

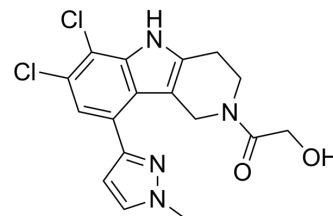
mail@szabo-scandic.com

www.szabo-scandic.com

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

G140

Cat. No.:	HY-133916
CAS No.:	2369751-07-3
Molecular Formula:	C ₁₇ H ₁₆ Cl ₂ N ₄ O ₂
Molecular Weight:	379.24
Target:	Cyclic GMP-AMP Synthase
Pathway:	Immunology/Inflammation
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 : 250 mg/mL (659.21 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.6369 mL	13.1843 mL	26.3685 mL
		5 mM		0.5274 mL	2.6369 mL	5.2737 mL
		10 mM		0.2637 mL	1.3184 mL	2.6369 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: ≥ 2.08 mg/mL (5.48 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.48 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.48 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	G140 is a potent and selective inhibitor of cyclic GMP-AMP synthase (cGAS), with IC ₅₀ s of 14.0 nM and 442 nM for h-cGAS and m-cGAS, respectively. G140 has anti-inflammatory activity ^[1] .
IC ₅₀ & Target	IC ₅₀ : 14.0 nM (h-cGAS), 442 nM (m-cGAS) ^[1]
In Vitro	G140 (0.1-100 μM; 4 h) inhibits h-cGAS in a dose-dependent manner with IC ₅₀ s of 1.70 and 0.86 μM in human THP1 and primary macrophages, respectively ^[1] .

?G140 (0.1-100 μ M; 24 h) inhibits cells viability with a LD₅₀ of >100 μ M in THP1 cells^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Commun. 2023 May 26;14(1):3050.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Lama L, et, al. Development of human cGAS-specific small-molecule inhibitors for repression of dsDNA-triggered interferon expression. Nat Commun. 2019 May 21; 10(1): 2261.

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