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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

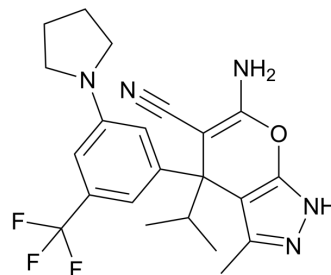
mail@szabo-scandic.com

www.szabo-scandic.com

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

SHMT-IN-2

Cat. No.:	HY-129226
CAS No.:	2102681-49-0
Molecular Formula:	C ₂₂ H ₂₄ F ₃ N ₅ O
Molecular Weight:	431.45
Target:	SHMT
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (231.78 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.3178 mL	11.5888 mL	23.1777 mL
		5 mM	0.4636 mL	2.3178 mL	4.6355 mL
	10 mM	0.2318 mL	1.1589 mL	2.3178 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 (5.79 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	SHMT-IN-2 is a stereo specific inhibitor of human SHMT1/2 with IC ₅₀ values of 13 nM and 66 nM for SHMT1 and SHMT2, respectively. SHMT-IN-2 can block the growth of many human cancer cells, and has sensitivity for B-cell lymphomas ^[1] .
IC ₅₀ & Target	IC ₅₀ : 2800 nM (SHMT1); IC ₅₀ : 36 nM (SHMT2) ^[1]
In Vitro	SHMT-IN-2 (compound 2) can inhibit cell growth with cellular IC ₅₀ values of 2800 nM and 36 nM for SHMT1 and SHMT2, respectively ^[1] . SHMT-IN-2 (30 μM) shows the growth sensitivity with the median IC ₅₀ was 4 μM to a panel of nearly 300 human cancer cell lines (with IC ₅₀ values of 1.72 μM and 1.73 μM for CCRF-CEM and HT, respectively), cell lines of B-cell lymphoma origin were enriched in the more sensitive half of cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. regory S Ducker, et al. Human SHMT inhibitors reveal defective glycine import as a targetable metabolic vulnerability of diffuse large B-cell lymphoma. Proc Natl Acad Sci U S A. 2017 Oct 24;114(43):11404-11409.

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