



SZABO SCANDIC

Part of Europa Biosite

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 HandelsgmbH

Quellenstraße 110, A-1100 Wien

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

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

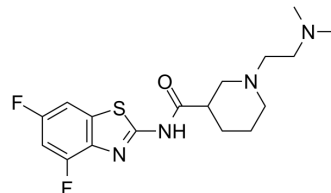
mail@szabo-scandic.com

www.szabo-scandic.com

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

MCUF-651

Cat. No.:	HY-149453		
CAS No.:	2747162-85-0		
Molecular Formula:	C ₁₇ H ₂₂ F ₂ N ₄ OS		
Molecular Weight:	368.44		
Target:	Guanylate Cyclase		
Pathway:	GPCR/G Protein		
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 : 50 mg/mL (135.71 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7141 mL	13.5707 mL	27.1415 mL
	5 mM	0.5428 mL	2.7141 mL	5.4283 mL
	10 mM	0.2714 mL	1.3571 mL	2.7141 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 (6.79 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.79 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.79 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

MCUF-651 is an orally active guanylyl cyclase A receptor (GC-A) positive allosteric modulator (PAM) (K_D: 397 nM). MCUF-651 binds to GC-A and selectively enhances the binding of atrial natriuretic peptide (ANP) to GC-A. MCUF-651 enhances ANP-mediated cGMP generation in human cardiac, renal, and fat cells. MCUF-651 inhibits cardiomyocyte hypertrophy^[1].

REFERENCES

[1]. Sangaralingham SJ, et al. Discovery of small molecule guanylyl cyclase A receptor positive allosteric modulators. Proc Natl Acad Sci U S A. 2021 Dec 28;118(52):e2109386118.

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