



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

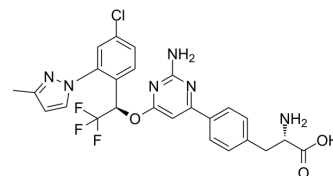
www.szabo-scandic.com

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



Telotristat

Cat. No.:	HY-13055B
CAS No.:	1033805-28-5
Molecular Formula:	C ₂₅ H ₂₂ ClF ₃ N ₆ O ₃
Molecular Weight:	546.93
Target:	Tryptophan Hydroxylase
Pathway:	Metabolic Enzyme/Protease
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 : 33.33 mg/mL (60.94 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		1.8284 mL	9.1419 mL	18.2839 mL
		5 mM		0.3657 mL	1.8284 mL	3.6568 mL
		10 mM		0.1828 mL	0.9142 mL	1.8284 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 (4.57 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Telotristat (LP-778902) is a potent tryptophan hydroxylase inhibitor with an in vivo IC ₅₀ of 0.028 μM.
IC ₅₀ & Target	IC ₅₀ : 0.028 μM (tryptophan hydroxylase) ^[1]
In Vitro	Telotristat is the active moiety of telotristat etiprate. Telotristat etiprate is an ethyl ester prodrug which is hydrolyzed to telotristat. Telotristat etiprate is orally available serotonin synthesis inhibitor for the treatment of carcinoid syndrome ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Telotristat etiprate is present in very low levels after oral administration. These low levels are due to rapid hydrolysis into the active moiety telotristat. The half-life ranges from approximately 4-12 h. There is no accumulation of telotristat with multiple dose administration over 2 weeks. Exposure to telotristat is approximately dose proportional^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay^[2]

BON CBA cells are grown in equal volume of DMEM and F12K with 5% bovine serum for 3-4 hours (20 K cell/well) and telotristat is added at a concentration range of 0.07 to 50 μ M. The cells are incubated at 37°C overnight. 50 μ M of the culture supernatant is then taken for 5HTP measurement. The supernatant is mixed with equal volume of 1M TCA, then filtered through glass fiber. The filtrate is loaded on reverse phase HPLC for 5HTP concentration measurement. The cell viability is measured by treating the remaining cells with Celltiter-Glo Luminescent Cell Viability Assay^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Administration^[2]

Rats: 14-week-old male C57 albino mice are dosed once daily by oral gavage at 5-10 mL/kg for four consecutive days. Five hours after the last dose, the animals are quickly sacrificed. 5-HT is extracted from the blood or tissues and measured by HPLC. Blood samples are taken for exposure analysis^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Lapuerta P, et al. Telotristat etiprate, a novel inhibitor of serotonin synthesis for the treatment of carcinoid syndrome. Clin. Invest. (Lond.) (2015) 5(5), 447–456
- [2]. US20080153852

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