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

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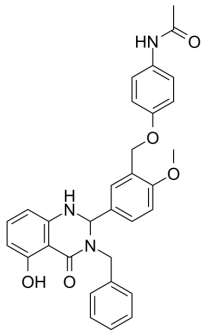
ML-109

Cat. No.:	HY-114116
CAS No.:	1186649-91-1
Molecular Formula:	$C_{31}H_{29}N_3O_5$
Molecular Weight:	523.58
Target:	TSH Receptor
Pathway:	GPCR/G Protein
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 : 83.33 mg/mL (159.15 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.9099 mL	9.5496 mL	19.0993 mL
5 mM	0.3820 mL	1.9099 mL	3.8199 mL
10 mM	0.1910 mL	0.9550 mL	1.9099 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: ≥ 2.17 mg/mL (4.14 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.17 mg/mL (4.14 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.17 mg/mL (4.14 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ML-109 is a potent and full thyroid stimulating hormone receptor (TSHR) agonist, with an EC_{50} of 40 nM.

IC_{50} & Target

EC50: 40 nM (TSHR)[1].

In Vitro

ML-109 (Compound 2) is a full agonist at TSHR with an EC_{50} of 40 nM and, like compound 1, it has no activity at FSHR or LHCGR. ML-109 contains an aminal, a functional group that is subject to hydrolysis and/or other degradation mechanisms. ML-109 is surprisingly stable at neutral and basic conditions ($t_{1/2}$ of ~16 h) but is found to degrade at low pH ($t_{1/2}$ of ~3 h)[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Neumann S, et al. Small-molecule agonists for the thyrotropin receptor stimulate thyroid function in human thyrocytes and mice. Proc Natl Acad Sci U S A. 2009 Jul 28;106(30):12471-6.

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