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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

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

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

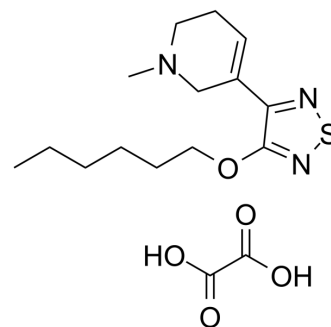
mail@szabo-scandic.com

www.szabo-scandic.com

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

Xanomeline oxalate

Cat. No.:	HY-13410
CAS No.:	141064-23-5
Molecular Formula:	C ₁₆ H ₂₅ N ₃ O ₅ S
Molecular Weight:	371.45
Target:	mAChR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (134.61 mM; Need ultrasonic)				
	Preparing Stock Solutions	Mass	1 mg	5 mg	10 mg
		Solvent			
		Concentration			
		1 mM	2.6922 mL	13.4608 mL	26.9215 mL
		5 mM	0.5384 mL	2.6922 mL	5.3843 mL
		10 mM	0.2692 mL	1.3461 mL	2.6922 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 (6.73 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Xanomeline oxalate (LY246708 oxalate) is a potent and selective muscarinic receptor agonist (SMRA) and stimulates phosphoinositide hydrolysis in vivo. Xanomeline oxalate can be used for the research of Alzheimer's disease ^[1] .
IC ₅₀ & Target	muscarinic receptor ^[1]
In Vitro	Xanomeline stimulates phosphoinositide (PI) hydrolysis in the A9 L m1 cells ^[1] . Xanomeline inhibits [³ H]-pirenzepine ([³ H]-PZ) and [³ H]-oxotremorine-M ([³ H]-OXO-M) binding to rat brain with K _i s of 7 and 3 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Xanomeline robustly stimulates in vivo PI hydrolysis and the effect is blocked by muscarinic antagonists, demonstrating mediation by muscarinic receptors. In mice the ED₁₀₀ for Xanomeline-induced stimulation of [³H]-IP accumulation is 54 μmole/kg in hippocampus. And in rats the ED₁₀₀ for Xanomeline-induced stimulation of [³H]-IP accumulation is 8.1 μmole/kg in hippocampus^[1].

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

Animal Model:	Male CF1 mice weighing 18-20 g are injected [³ H]-myoinositol ^[1]
Dosage:	8.1-81 μmole/kg
Administration:	S.c. injections; 1 h prior to killing and 1 h after the administration
Result:	Increased accumulation in a dose-related manner up to 130%, 75%, 60% above lithium levels in hippocampus, cortex and neostriatum, respectively. And did not increase accumulation of [³ H]-IP in the brain stem. Induced salivation, tremor and hypothermia in mice with the ED ₅₀ of 13.7±0.8 μmole/kg.

Animal Model:	Rats are injected [³ H]-myoinositol ^[1]
Dosage:	2.7-81 μmole/kg
Administration:	S.c. injections; 1 h prior to killing and 1 h after the administration
Result:	Increased [³ H]-IP formation dose dependently in hippocampus up to 221% above lithium control.

CUSTOMER VALIDATION

- Int J Mol Sci. 2023 Apr 16, 24(8), 7356.

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REFERENCES

[1]. F P Bymaster, et al. Xanomeline Compared to Other Muscarinic Agents on Stimulation of Phosphoinositide Hydrolysis in Vivo and Other Cholinomimetic Effects. Brain Res. 1998 Jun 8; 795(1-2):179-90.

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