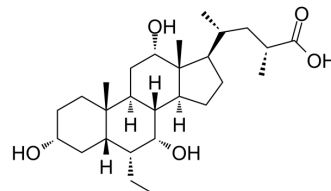


## INT-777 R-enantiomer

<b>Cat. No.:</b>	HY-15677A		
<b>CAS No.:</b>	1198786-98-9		
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>46</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	450.65		
<b>Target:</b>	G protein-coupled Bile Acid Receptor 1		
<b>Pathway:</b>	GPCR/G Protein		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (221.90 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		2.2190 mL	11.0951 mL	22.1902 mL
	5 mM		0.4438 mL	2.2190 mL	4.4380 mL
	10 mM		0.2219 mL	1.1095 mL	2.2190 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 (5.55 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (5.55 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (5.55 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

INT-777 (R-enantiomer) is the R-enantiomer of INT-777, with EC<sub>50</sub> of 4.79 μM for TGR5, and less potent than INT-777.

#### In Vivo

INT-777 (R-enantiomer) is more choleric than CA (4), but less than INT-777<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Pellicciari R, et al. Discovery of 6alpha-ethyl-23(S)-methylcholic acid (S-EMCA, INT-777) as a potent and selective agonist for the TGR5 receptor, a novel target for diabetes. J Med Chem. 2009 Dec 24;52(24):7958-61.

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**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](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA