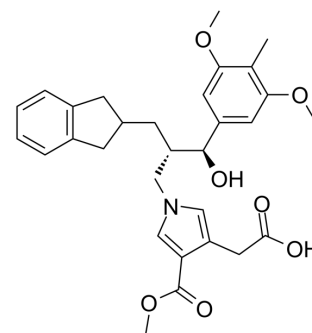


## ONO-9780307

Cat. No.:	HY-117444
CAS No.:	856691-44-6
Molecular Formula:	C <sub>30</sub> H <sub>35</sub> NO <sub>7</sub>
Molecular Weight:	521.6
Target:	LPL Receptor
Pathway:	GPCR/G Protein
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (191.72 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	1.9172 mL	9.5859 mL	19.1718 mL
			5 mM	0.3834 mL	1.9172 mL	3.8344 mL
			10 mM	0.1917 mL	0.9586 mL	1.9172 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (9.59 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	ONO-9780307 is a specific synthetic LPA1 (lysophosphatidic acid receptor 1) antagonist with an IC <sub>50</sub> value of 2.7 nM <sup>[1]</sup> .
IC <sub>50</sub> & Target	LPA1 Receptor 2.7 nM (IC <sub>50</sub> )
In Vitro	VT107 (0.1~10000 μM; LPA1-B103 and Vector-B103 cells) results in inhibition of Ca <sup>2+</sup> mobilization <sup>[1]</sup> . ONO-9780307 is used to solve the LPA1 crystal structure, binds to an orthosteric site in LPA1 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Mizuno H, et al. Lysophospholipid G protein-coupled receptor binding parameters as determined by backscattering interferometry. J Lipid Res. 2019;60(1):212-217.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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