## GRI977143

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MedChemExpress

Cat. No.:	HY-100676	
CAS No.:	325850-81-5	
Molecular Formula:	$C_{22}H_{17}NO_{4}S$	
Molecular Weight:	391.44	
Target:	LPL Receptor; Caspase	
Pathway:	GPCR/G Protein; Apoptosis	
Storage:	<b>4°C, protect from light</b> * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)	

## SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5547 mL	12.7733 mL	25.5467 mL
	5 mM	0.5109 mL	2.5547 mL	5.1093 mL
	10 mM	0.2555 mL	1.2773 mL	2.5547 mL

BIOLOGICAL ACTIV			
Diologicality			
Description	GRI977143 is a specific LPA $_2$ receptor agonist, with an EC $_{50}$ of 3.3 $\mu$ M $^{[1]}.$		
IC <sub>50</sub> & Target	LPA <sub>2</sub> Receptor 3.3 μM (EC50)		
In Vitro	GRI977143 (10 μM, 24-72 ribose)polymerase 1 cle GRI977143 is an effective macromolecular signalin interacting protein 6 <sup>[1]</sup> . MCE has not independer Cell Proliferation Assay <sup>[4]</sup>	2 h) is effective in reducing activation of caspases 3, 7, 8, and 9 and inhibits poly(ADP- avage and DNA fragmentation in different extrinsic and intrinsic models of apoptosis <sup>[1]</sup> . e stimulator of extracellular signal-regulated kinase 1/2 activation and promotes the assembly of a ng complex consisting of LPA2, Na+-H+ exchange regulatory factor 2, and thyroid receptor ntly confirmed the accuracy of these methods. They are for reference only. 1]	
	Cell Line:	Vector- and LPA2-transduced MEF cells $(2 \times 10^4)^{[1]}$ .	
	Concentration:	10 µM.	

Product Data Sheet

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Incubation Time:	24-72 h.
Result:	Did not cause a significant increase in vector cell proliferation except at 72 h (p < 0.05).
Apoptosis Analysis <sup>[1]</sup> .	
Cell Line:	Doxorubicin-induced apoptotic signaling in vector-transduced or LPA2-transduced MEF.
Concentration:	10 μΜ.
Incubation Time:	24 h.
Result:	Reduced caspase 3 and 7 activation on LPA2-transduced MEF cells by $51 \pm 3\%$ and was approximately as potent as 3 $\mu$ M LPA or OTP. Protected against doxorubicin-induced apoptosis by inhibiting caspase 3, 7, 8, and 9 and

## REFERENCES

[1]. Gyöngyi N. Kiss, et al. Virtual Screening for LPA2-Specific Agonists Identifies a Nonlipid Compound with Antiapoptotic Actions. Mol Pharmacol. 2012 Dec; 82(6): 1162–1173.

[2]. Gyöngyi Nagyné Kiss, et al. PHARMACOLOGICAL AND CELLULAR CHARACTERIZATION OF GRI977143, A NOVEL NONLIPID LPA2 RECEPTOR AGONIST IDENTIFIED BY VIRTUAL SCREENING.

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

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