## L-161982

Cat. No.:	HY-108559		
CAS No.:	147776-06-	5	
Molecular Formula:	C <sub>32</sub> H <sub>29</sub> F <sub>3</sub> N <sub>4</sub> O	<sub>4</sub> S <sub>2</sub>	
Molecular Weight:	654.72		
Target:	Prostagland	din Recep	otor
Pathway:	GPCR/G Pro	otein	
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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## SOLVENT & SOLUBILITY

1.5274 mL	7.6369 mL	
	1.0309 IIIL	15.2737 mL
0.3055 mL	1.5274 mL	3.0547 mL
0.1527 mL	0.7637 mL	1.5274 mL
ect the appropriate solvent.		
	0.1527 mL	0.1527 mL 0.7637 mL ect the appropriate solvent.

BIOLOGICAL ACTIV	
DIOLOGICAL ACTI	
Description	L-161982 is a selective EP4 receptor antagonist. L-161982 completely blocks PGE2-induced ERK phosphorylation and cell proliferation of HCA-7 cells. L-161982 alleviates collagen-induced arthritis in mice <sup>[1][2]</sup> .
In Vitro	L-161982 (10 μM; 2 hours) blocks PGE2-stimulated cell proliferation of HCA-7 cells <sup>[1]</sup> . L-161982 (10 μM; 1 hour) blocks PGE2-stimulated ERK phosphorylation in HCA-7 cells <sup>[1]</sup> . L-161982 induces apoptosis, cell cycle arrest, and inhibits prostaglandin E2-induced proliferation in oral squamous carcinoma Tca8113 cells <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay <sup>[1]</sup> Cell Line: HCA-7 cells

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Concentration:	10 μΜ
Incubation Time:	2 hours
Result:	Blocked PGE2-induced cell proliferation.
MCE has not independe	once per day for 2 weeks) reduces arthritis lesions and lesion progression in CIA mice <sup>[2]</sup> . ntly confirmed the accuracy of these methods. They are for reference only.
MCE has not independe Animal Model:	
· · ·	ntly confirmed the accuracy of these methods. They are for reference only.
Animal Model:	ntly confirmed the accuracy of these methods. They are for reference only. Female DBA/1 mice of 6 to 8 weeks old (collagen-induced arthritis (CIA) mice model) <sup>[1]</sup>

## REFERENCES

[1]. Li X, et al. The EP4 antagonist, L-161,982, induces apoptosis, cell cycle arrest, and inhibits prostaglandin E2-induced proliferation in oral squamous carcinoma Tca8113 cells. J Oral Pathol Med. 2017 Nov;46(10):991-997.

[2]. Cherukuri DP, et al. The EP4 receptor antagonist, L-161,982, blocks prostaglandin E2-induced signal transduction and cell proliferation in HCA-7 colon cancer cells.Exp Cell Res. 2007 Aug 15;313(14):2969-79.

[3]. Chen L, et al. L161982 alleviates collagen-induced arthritis in mice by increasing Treg cells and down-regulating Interleukin-17 and monocyte-chemoattractant protein-1 levels.BMC Musculoskelet Disord. 2017 Nov 16;18(1):462.

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