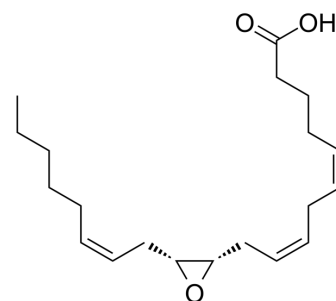


## (±)11(12)-EET

Cat. No.:	HY-130494
CAS No.:	123931-40-8
Molecular Formula:	C <sub>20</sub> H <sub>32</sub> O <sub>3</sub>
Molecular Weight:	320.47
Target:	NOD-like Receptor (NLR)
Pathway:	Immunology/Inflammation
Storage:	Solution, -20°C, 2 years



### BIOLOGICAL ACTIVITY

<b>Description</b>	(±)11(12)-EET is a NLRP3 inflammasome inhibitor. (±)11(12)-EET can be used for the research of anti-inflammatory, angiogenic and cardioprotective <sup>[1][2][3][4][6]</sup> .																
<b>IC<sub>50</sub> &amp; Target</b>	NLRP3 inflammasome																
<b>In Vitro</b>	<p>(±)11(12)-EET (5 μM; 10 minutes; macrophages) depresses NLRP3 protein expression, dramatically decreases the expression of pro-IL-1β in cells and the supernatant and reduces the intracellular ROS<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>Macrophages</td> </tr> <tr> <td>Concentration:</td> <td>5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>10 minutes</td> </tr> <tr> <td>Result:</td> <td>Depresses NLRP3 protein expression.</td> </tr> </table> <p>Immunofluorescence<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>Macrophages</td> </tr> <tr> <td>Concentration:</td> <td>5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>10 minutes</td> </tr> <tr> <td>Result:</td> <td>Reduced the intracellular ROS.</td> </tr> </table>	Cell Line:	Macrophages	Concentration:	5 μM	Incubation Time:	10 minutes	Result:	Depresses NLRP3 protein expression.	Cell Line:	Macrophages	Concentration:	5 μM	Incubation Time:	10 minutes	Result:	Reduced the intracellular ROS.
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<b>In Vivo</b>	<p>(±)11(12)-EET increases adhesion of isolated peripheral blood leukocytes in a chamber coated with P-selectin and ICAM-1 in 50 μg/kg<sup>[5]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>																

### REFERENCES

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- [5]. Wang Z, et al. Arachidonic acid inhibits basolateral K channels in the cortical collecting duct via cytochrome P-450 epoxygenase-dependent metabolic pathways. *Am J Physiol Renal Physiol.* 2008;294(6):F1441-F1447.
- [6]. Spector AA. Arachidonic acid cytochrome P450 epoxygenase pathway. *J Lipid Res.* 2009;50 Suppl(Suppl):S52-S56.
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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