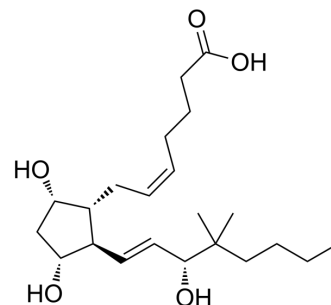


## 16,16-Dimethylprostaglandin F2 $\alpha$

Cat. No.:	HY-116051
CAS No.:	39746-23-1
Molecular Formula:	C <sub>22</sub> H <sub>38</sub> O <sub>5</sub>
Molecular Weight:	382.53
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	16,16-Dimethylprostaglandin F2 $\alpha$ (16,16-Dimethyl-PGF2 $\alpha$ ) is a potent analog of PGF2 $\alpha$ (HY-12956), which exhibits similar binding potency as PGF2 $\alpha$ does. 16,16-Dimethylprostaglandin F2 $\alpha$ serves as a bronchoconstrictor <sup>[1][2]</sup> .								
<b>In Vivo</b>	<p>16,16-Dimethylprostaglandin F2<math>\alpha</math> (0-0.5 <math>\mu</math>g, iv, single dose) inhibits histamine-induced intracheal insufflation pressure increase in guinea pigs model.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>guinea pigs model<sup>[1]</sup></td> </tr> <tr> <td>Dosage:</td> <td>0-0.5 <math>\mu</math>g</td> </tr> <tr> <td>Administration:</td> <td>iv, single dose</td> </tr> <tr> <td>Result:</td> <td>Inhibited histamine-induced increase in tracheal insufflation pressure.</td> </tr> </table>	Animal Model:	guinea pigs model <sup>[1]</sup>	Dosage:	0-0.5 $\mu$ g	Administration:	iv, single dose	Result:	Inhibited histamine-induced increase in tracheal insufflation pressure.
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Dosage:	0-0.5 $\mu$ g								
Administration:	iv, single dose								
Result:	Inhibited histamine-induced increase in tracheal insufflation pressure.								

### REFERENCES

[1]. Strandberg K, et al., Bronchial effects of some prostaglandin E and F analogues. *Acta Physiol Scand.* 1977 Jun;100(2):172-81.

[2]. Balapure AK, et al., Structural requirements for prostaglandin analog interaction with the ovine corpus luteum prostaglandin F2 alpha receptor. Implications for development of a photoaffinity probe. *Biochem Pharmacol.* 1989 Jul 15;38(14):2375-81.

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

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