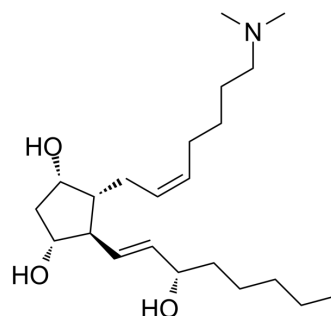


## Prostaglandin F2α dimethyl amine

Cat. No.:	HY-114761
CAS No.:	67508-09-2
Molecular Formula:	C <sub>22</sub> H <sub>41</sub> NO <sub>3</sub>
Molecular Weight:	367.57
Target:	Prostaglandin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Prostaglandin F2α dimethyl amine is a Prostaglandin F2α (HY-12956) derivative. Prostaglandin F2α dimethyl amine is an antagonist for Prostaglandin F receptor (FP) <sup>[1]</sup> . Prostaglandin F2α dimethyl amine blocks the cardiovascular responses induced by orexin and Arachidonic acid (HY-109590) <sup>[2]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	FP								
<b>In Vivo</b>	<p>Prostaglandin F2α dimethyl amine (50 μg, i.c.v., single dose) prevents the pressor and tachycardic effects induced by Orexin in Sprague-Dawley rats<sup>[2]</sup>.</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>Orexin-induced cardiovascular response in Sprague Dawley rats<sup>[2]</sup></td> </tr> <tr> <td>Dosage:</td> <td>50 μg</td> </tr> <tr> <td>Administration:</td> <td>i.c.v for single dose</td> </tr> <tr> <td>Result:</td> <td>Prevented the pressor and tachycardic effects.</td> </tr> </table>	Animal Model:	Orexin-induced cardiovascular response in Sprague Dawley rats <sup>[2]</sup>	Dosage:	50 μg	Administration:	i.c.v for single dose	Result:	Prevented the pressor and tachycardic effects.
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Administration:	i.c.v for single dose								
Result:	Prevented the pressor and tachycardic effects.								

### REFERENCES

[1]. Griffin BW, et al., AL-8810: a novel prostaglandin F2 alpha analog with selective antagonist effects at the prostaglandin F2 alpha (FP) receptor. J Pharmacol Exp Ther. 1999 Sep;290(3):1278-84.

[2]. ALTINBAŞ B. The Intermediation Role of Central Cyclooxygenase Products TXA<sub>2</sub>, PGF<sub>2</sub>α, PGE, and PGD in Orexin-evoked Cardiovascular Effects[J]. Izmir Democracy University Health Sciences Journal, 2021, 4(3): 251-266.

**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

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA