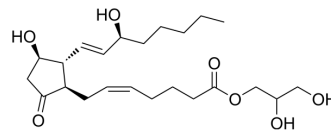


## Prostaglandin E2-1-glyceryl ester

Cat. No.:	HY-114826
CAS No.:	37497-47-5
Molecular Formula:	C <sub>23</sub> H <sub>38</sub> O <sub>7</sub>
Molecular Weight:	426.54
Target:	Cannabinoid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Prostaglandin E2-1-glyceryl ester, a Prostaglandin Glycerol Ester, is an endocannabinoid ligand for the CB <sub>1</sub> receptor. Prostaglandin E2-1-glyceryl ester induces rapid, transient elevation of intracellular free Ca <sup>2+</sup> [1][2].
<b>IC<sub>50</sub> &amp; Target</b>	EC50: 150 nM (Ca <sup>2+</sup> in NG108-15 cells)[2].
<b>In Vitro</b>	Prostaglandin E2-1-glyceryl ester is rapidly hydrolyzed in rat plasma to generate PGE2 (t <sub>1/2</sub> = 14 s) but is only slowly metabolized in human plasma (t <sub>1/2</sub> = 10 min)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. K R Kozak, et al. Metabolism of prostaglandin glycerol esters and prostaglandin ethanolamides in vitro and in vivo. J Biol Chem. 2001 Oct 5;276(40):36993-8.
- [2]. T Sugiura, et al. 2-Arachidonoylglycerol, a putative endogenous cannabinoid receptor ligand, induces rapid, transient elevation of intracellular free Ca<sup>2+</sup> in neuroblastoma x glioma hybrid NG108-15 cells. Biochem Biophys Res Commun. 1996 Dec 4;229(1):58-64.

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

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