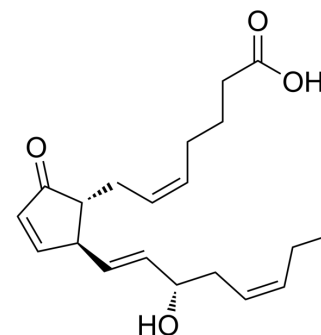


Prostaglandin A3

Cat. No.:	HY-114822
CAS No.:	36614-31-0
Molecular Formula:	C ₂₀ H ₂₈ O ₄
Molecular Weight:	332.43
Target:	Prostaglandin Receptor; PPAR
Pathway:	GPCR/G Protein; Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Prostaglandin A3 is a non-enzymatic dehydration product of prostaglandin E3 (PGE3). Prostaglandin A3 showed good affinity for canine EP2 and EP4 receptors with IC₅₀ values of 120 and 20 nM, respectively. The K_i value of Prostaglandin A3 for human PPAR γ was 188 μ M^{[1][2][3]}.

IC₅₀ & Target

Target	IC ₅₀ / K _i
EP2	120 nM (IC ₅₀)
EP4	20 nM (IC ₅₀)
PPAR- γ	188 μ M (K _i)

REFERENCES

- [1]. Hibbs TA, et al. Molecular cloning and characterization of the canine prostaglandin E receptor EP2 subtype. *Prostaglandins Other Lipid Mediat.* 1999 May;57(2-3):133-47.
- [2]. Castleberry TA, et al. Molecular cloning and functional characterization of the canine prostaglandin E2 receptor EP4 subtype. *Prostaglandins Other Lipid Mediat.* 2001 Jul;65(4):167-87.
- [3]. Ferry G, et al. Binding of prostaglandins to human PPAR γ : tool assessment and new natural ligands. *Eur J Pharmacol.* 2001 Apr 6;417(1-2):77-89.

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

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