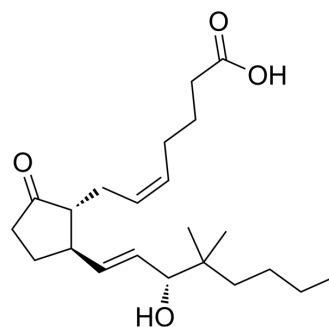


11-Deoxy-16,16-dimethyl-PGE2

| | |
|--------------------|---|
| Cat. No.: | HY-136696 |
| CAS No.: | 53658-98-3 |
| Molecular Formula: | C ₂₂ H ₃₆ O ₄ |
| Molecular Weight: | 364.52 |
| Target: | Prostaglandin Receptor |
| Pathway: | GPCR/G Protein |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | | |
|-------------------------------------|--|-----|
| Description | 11-Deoxy-16,16-dimethyl-PGE2, a Prostaglandin E2 analog, is a EP2 and EP3 receptors agonist. 11-Deoxy-16,16-dimethyl-PGE2 protects proximal renal tubular epithelial cells from potent nephrotoxicity-induced cell damage by exerting anti-oxidative stress ^{[1][2]} . | |
| IC₅₀ & Target | EP2 | EP3 |
| In Vitro | 11-Deoxy-16,16-dimethyl-PGE2, selectively stimulates the synthesis of several proteins in protect renal proximal tubular epithelial (LLC-PK1) cells, including endothelial actin binding protein, myosin, elongation factor 2 (EF-2), elongation factor 1alpha-1 (EF-1alpha), HSP90beta, GRP78, membrane-organizing extension spike protein, and actin ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | |

REFERENCES

[1]. R F Parrott, et al. Effects of centrally administered prostaglandin EP receptor agonists on febrile and adrenocortical responses in the prepubertal pig. Brain Res Bull. 1996;41(2):97-103.

[2]. Kelly M Towndrow, et al. 11-Deoxy,16,16-dimethyl prostaglandin E2 induces specific proteins in association with its ability to protect against oxidative stress. Chem Res Toxicol. 2003 Mar;16(3):312-9.

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

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