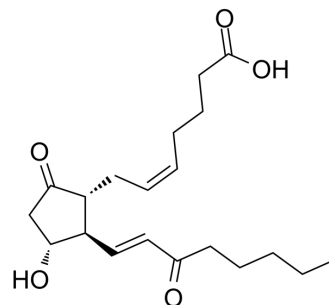


## 15-keto-Prostaglandin E2

Cat. No.:	HY-113205
CAS No.:	26441-05-4
Molecular Formula:	C <sub>20</sub> H <sub>30</sub> O <sub>5</sub>
Molecular Weight:	350.45
Target:	Endogenous Metabolite; Endogenous Metabolite; Prostaglandin Receptor; STAT; PPAR
Pathway:	Metabolic Enzyme/Protease; GPCR/G Protein; JAK/STAT Signaling; Stem Cell/Wnt; Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### BIOLOGICAL ACTIVITY

#### Description

15-keto-Prostaglandin E2 is an endogenous metabolite. 15-keto-Prostaglandin E2 inhibits STAT3 activation by binding to its Cys259 residue. 15-keto-Prostaglandin E2 can bind and stabilize EP2 and EP4 receptor. 15-keto-Prostaglandin E2 inhibits breast cancer cell growth and progression. 15-keto-Prostaglandin E2 activates PPAR- $\gamma$  and promotes fungal growth<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. Lee EJ, et al. 15-Keto prostaglandin E2 suppresses STAT3 signaling and inhibits breast cancer cell growth and progression. *Redox Biol.* 2019 May;23:101175.
- [2]. Kourpa A, et al. 15-keto-Prostaglandin E2 exhibits bioactive role by modulating glomerular cytoarchitecture through EP2/EP4 receptors. *Life Sci.* 2022 Dec 1;310:121114.
- [3]. Evans RJ, et al. 15-keto-prostaglandin E2 activates host peroxisome proliferator-activated receptor gamma (PPAR- $\gamma$ ) to promote *Cryptococcus neoformans* growth during infection. *PLoS Pathog.* 2019 Mar 28;15(3):e1007597.

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

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