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Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

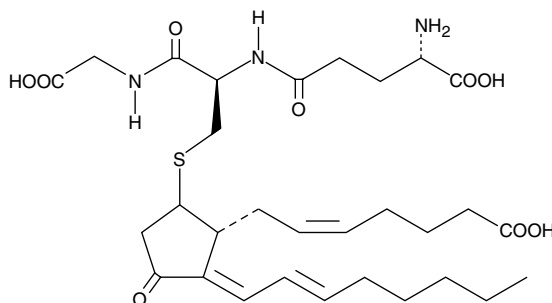
# Product Information



## 15-deoxy- $\Delta^{12,14}$ -Prostaglandin J<sub>2</sub> Glutathione

Item No. 18580

**CAS Registry No.:** 537695-15-1  
**Formal Name:** L- $\gamma$ -glutamyl-S-[(1S,2R,3E)-2-[(2Z)-6-carboxy-2-hexenyl]-3-(2Z)-2-octenylidene-4-oxocyclopentyl]-L-cysteinyl-glycine  
**Synonym:** 15-deoxy- $\Delta^{12,14}$ -PGJ<sub>2</sub> Glutathione  
**MF:** C<sub>30</sub>H<sub>45</sub>N<sub>3</sub>O<sub>9</sub>S  
**FW:** 623.8  
**Purity:**  $\geq$ 90%  
**Stability:**  $\geq$ 1 year at -20°C  
**Supplied as:** A solution in methanol  
**UV/Vis.:**  $\lambda_{\text{max}}$ : 299 nm



### Laboratory Procedures

For long term storage, we suggest that 15-deoxy- $\Delta^{12,14}$ -prostaglandin J<sub>2</sub> glutathione (15-deoxy- $\Delta^{12,14}$ -PGJ<sub>2</sub> glutathione) be stored as supplied at -20°C. It should be stable for at least one year.

15-deoxy- $\Delta^{12,14}$ -PGJ<sub>2</sub> Glutathione is supplied as a solution in methanol. To change the solvent, simply evaporate the methanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of 15-deoxy- $\Delta^{12,14}$ -PGJ<sub>2</sub> glutathione in these solvents is approximately 20 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of 15-deoxy- $\Delta^{12,14}$ -PGJ<sub>2</sub> glutathione is needed, it can be prepared by evaporating the methanol and directly dissolving the neat oil in aqueous buffers. The solubility of 15-deoxy- $\Delta^{12,14}$ -PGJ<sub>2</sub> glutathione in PBS, pH 7.2, is approximately 0.2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

15-deoxy- $\Delta^{12,14}$ -PGJ<sub>2</sub> glutathione is a non-enzymatic adduct formed from 15-deoxy- $\Delta^{12,14}$ -PGJ<sub>2</sub> and glutathione.<sup>1-3</sup> The biological properties of this compound have not been characterized.

### References

1. Cox, B., Murphey, L.J., Zackert, W.E., *et al.* Human colorectal cancer cells efficiently conjugate the cyclopentenone prostaglandin, prostaglandin J<sub>2</sub>, to glutathione. *Biochim. Biophys. Acta* **1584**, 37-45 (2002).
2. Brunoldi, E.M., Zanoni, G., Vidari, G., *et al.* Cyclopentenone prostaglandin, 15-deoxy- $\Delta^{12,14}$ -PGJ<sub>2</sub>, is metabolized by HepG<sub>2</sub> cells *via* conjugation with glutathione. *Chem. Res. Toxicol.* **20**, 1528-1535 (2007).
3. Paumi, C.M., Smitherman, P.K., Townsend, A.J., *et al.* Glutathione S-transferases (GSTs) inhibit transcriptional activation by the peroxisomal proliferator-activated receptor  $\gamma$  (PPAR $\gamma$ ) ligand, 15-deoxy- $\Delta^{12,14}$  prostaglandin J<sub>2</sub> (15-d-PGJ<sub>2</sub>). *Biochemistry* **43**(8), 2345-2352 (2004).

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### Cayman Chemical

**Mailing address**  
1180 E. Ellsworth Road  
Ann Arbor, MI  
48108 USA

**Phone**  
(800) 364-9897  
(734) 971-3335

**Fax**  
(734) 971-3640

**E-Mail**  
custserv@caymanchem.com

**Web**  
[www.caymanchem.com](http://www.caymanchem.com)