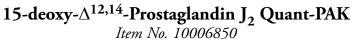
Product Information



15-deoxy- $\Delta^{12,14}$ -Prostaglandin J₂

15-deoxy- $\Delta^{12,14}$ -Prostaglandin J₂-d₄

CAS Registry No.: Formal Name:	87893-55-8 11-oxo-prosta-5Z,9,12E,14Z- tetraen-1-oic acid	CAS Registry No.: Formal Name:	1542166-82-4 11-oxo-prosta-5Z,9,12E,14Z-tetraen- 1-oic-3,3,4,4-d ₄ acid
MF:	C ₂₀ H ₂₈ O ₃	MF:	$C_{20}H_{24}D_4O_3$
FW:	316.4	FW:	320.5
Purity:	≥97%	Chemical Purity:	≥98%
Stability:	≥1 year at -20°C	Deuterium	
Supplied as: UV/Vis.:	A solution in methyl acetate λ_{max} : 229, 306 nm ϵ : 12,000	Incorporation:	≥99% deuterated forms (d_1-d_4) ; ≤1% d_0
0 17 13	(at 306 nm)	Stability:	≥1 year at -20°C
	(at 500 mil)	Supplied as:	A solution in methyl acetate
		UV/Vis.:	λ _{max} : 306 nm ε: 18,000
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This 15-deoxy- $\Delta^{12,14}$ -prostaglandin J₂ (15-deoxy- $\Delta^{12,14}$ -PGJ₂) Quant-PAK contains 50 µg of 15-deoxy- $\Delta^{12,14}$ -PGJ₂-d₄ and 2-4 mg of 15-deoxy- $\Delta^{12,14}$ -PGJ₂ (please see the vial for exact amount and concentration). For long term storage, we suggest that 15-deoxy- $\Delta^{12,14}$ -PGJ₂ and 15-deoxy- $\Delta^{12,14}$ -PGJ₂-d₄ be stored as supplied at -20°C. They will be stable for at least one year.

15-deoxy- $\Delta^{12,14}$ -PGJ₂ is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 15-deoxy- $\Delta^{12,14}$ -PGJ₂ in these solvents is 75, 20, and 100 mg/ml, respectively.

15-deoxy- $\Delta^{12,14}$ -PGJ₂-d₄ is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 15-deoxy- $\Delta^{12,14}$ -PGJ₂-d₄ in these solvents is 75, 50, and 100 mg/ml, respectively.

15-deoxy- $\Delta^{12,14}$ -PGJ₂-d₄ contains four deuterium atoms at the 3, 3', 4, and 4' positions. It is intended for use as an internal standard for the quantification of 15-deoxy- $\Delta^{12,14}$ -PGJ₂ by GC- or LC-mass spectrometry. The accuracy of the sample weight in the 15-deoxy- $\Delta^{12,14}$ -PGJ₂-d₄vial is between 5% over and 2% under the weight indicated on the vial. For better precision we have provided a precisely weighed unlabeled 15-deoxy- $\Delta^{12,14}$ -PGJ₂-d₄, with the precise weight (2-4 mg) indicated on the vial. Using this vial the deuterated standard can be quantified by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

15-deoxy- $\Delta^{12,14}$ -PGJ₂ is formed from PGD₂ by the elimination of two molecules of water. It binds selectively to PPAR γ with an EC₅₀ of 2 μ M in a murine chimera system.^{1,2} 15-deoxy- $\Delta^{12,14}$ -PGJ₂ is more potent than PGD₂, Δ^{12} -PGJ₂, and PGJ₂ in stimulating lipogenesis in C3H10T1/2 cells. The EC_{50} for induction of adipocyte differentiation in cultured fibroblasts is 7 μM.¹

References

1. Kliewer, S.A., Lenhard, J.M., Willson, T.M., et al. Cell 83, 813-819 (1995). 2. Forman, B.M., Tontonoz, P., Chen, J., et al. Cell 83, 803-812 (1995).

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WARNING: This product is for laboratory research only: not for administration to humans. Not for human or veterinary DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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