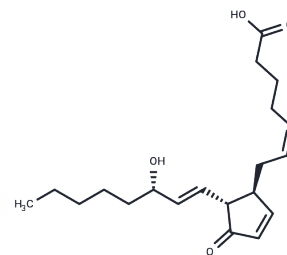


Prostaglandin J2

Chemical Properties

CAS No. :	60203-57-8
Formula:	C ₂₀ H ₃₀ O ₄
Molecular Weight:	334.45
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Prostaglandin J2 (PGJ2), a derivative of Prostaglandin D2 (PGD2), serves as a potent agonist for PGD2 receptors (DP), exhibiting affinity constants (K _i) of 0.9 nM and 6.6 nM for hDP and hCRTH2 receptors, respectively. It activates cyclic AMP production with an EC ₅₀ of 1.2 nM, induces oxidative stress, neuronal apoptosis, and promotes the accumulation of ubiquitinated (Ub) proteins. Notably, PGJ2's neurotoxic properties are implicated in the progression of neurodegenerative diseases such as Alzheimer's (AD) and Parkinson's (PD) [1] [2] [3] [4].
Targets(IC50)	Others,Endogenous Metabolite,Prostaglandin Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.990 mL	14.9499 mL	29.8998 mL
5 mM	0.598 mL	2.990 mL	5.980 mL
10 mM	0.299 mL	1.495 mL	2.990 mL
50 mM	0.0598 mL	0.299 mL	0.598 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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