

Product Name: Prostaglandin E2 Revision Date: 08/14/2023

Product Data Sheet

Prostaglandin E2

Cat. No.: B7005

CAS No.: 363-24-6

Formula: C20H32O5

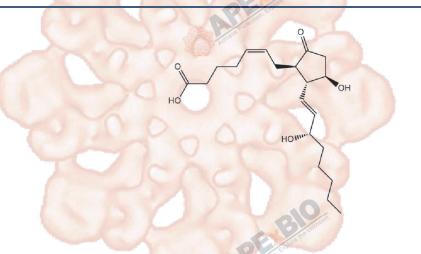
M.Wt: 352.47

Synonyms:

Target: GPCR/G protein

Pathway: Prostanoid Receptors

Storage: Store at -20°C



Solvent & Solubility

≥35.2 mg/mL in EtOH; insoluble in H2O; ≥42.8 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.8371 mL	14.1856 mL	28.3712 mL
	5 mM	0.5674 mL	2.8371 mL	5.6742 mL
	10 mM	0.2837 mL	1.4186 mL	2.8371 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Endogenous prostaglandin		
IC ₅₀ & Target		EL TEGOTO	
	Cell Viability Assay	B E procure	
In Vitro	Cell Line; 1000 com	HEK293 cells	
	Preparation method:	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining	
		a higher concentration: Please warm the tube at 37°C for 10 minutes and/or	
		shake it in the ultrasonic bath for a while. Stock solution can be stored below	
		-20°C for several months.	
	Reacting conditions:	N/A	

	Applications:	In HEK293 cells, prostaglandin E2 bound the FP receptor with Ki value of 119		
		nM. PGE2 production in the kidney is critical for normal renal function by		
		preserving renal blood flow and glomerular filtration rate in settings of		
		physiological stress, modulating salt and water transport in the distal tubule,		
	Jagger and	and stimulating renin release from the juxtaglomerular apparatus.		
In Vivo	Animal experiment			
	Dosage form:	oral 1 mg three times daily or 0.33 mg three times daily		
	Applications:	In patients with rheumatic diseases, the indomethacin-induced bleeding was		
		reduced to control level by concomitant oral PGE2 1 mg three times daily and		
		was significantly reduced by 0.33 mg three times daily.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
		slightly differ with the theoretical value. This is caused by an experimental		
		system error and it is normal.		

APENDO DE

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Hata AN, Breyer RM. Pharmacology and signaling of prostaglandin receptors: multiple roles in inflammation and immune modulation. Pharmacol Ther. 2004 Aug;103(2):147-66.

[2] Johansson C, Kollberg B. Clinical trials with prostaglandin E2. Prostaglandins. 1981;21 Suppl:161-4.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com



AREA ESTADOR DE UNITORNO

ARELEGICA DE LA COMPANION DE L

ARE ENGLANDED TO THE STATE OF T

ARE LEGISLE DE LEGISLE

A Real Particular Supra ve Internal

ARE LEGISLATION TO DO THE OWNERS AND ADDRESS OF THE OWNERS AND ADDRESS