PRODUCT INFORMATION



CG 4305

Item No. 10012447

Formal Name:	3-[(E)-[(3aR,4S,5S,6aR)-4-[(1E,3R)- 3-cyclohexyl-3-hydroxy-1-propen- 1-yl]hexahydro-5-hydroxy-2(1H)- pentalenylidene]methyl]-benzoic acid	HOOC
MF:	$C_{25}H_{32}O_{4}$	
FW:	396.5	$\langle \rangle$
Purity:	≥95%	
UV/Vis.:	λ _{max} : 230, 257 nm	
Supplied as:	A solution in methyl acetate	
Storage:	-20°C	Ť T
Stability:	≥2 years	ОН ОН

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

CG 4305 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 (DMF) purged with an inert gas can be used. The solubility of CG 4305 in ethanol is approximately 3 mg/ml and approximately 10 and 5 mg/ml in DMSO and DMF, respectively.

CG 4305 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the methyl acetate solution of CG 4305 should be diluted with the aqueous buffer of choice. CG 4305 has a solubility of approximately 0.1 mg/ml in a 1:10 solution of DMSO:PBS (pH 7.2) using this method.We do not recommend storing the aqueous solution for more than one day.

Description

Prostacyclin (PGI₂) is a cyclooxygenase metabolite with antithrombotic properties found in vascular endothelial cells. The half-life is short both in vivo and in vitro, ranging from 30 seconds to a few minutes. CG 4305 is a stable carbacyclic analog of PGI₂ that inhibits ADP-induced platelet aggregation 25% at a concentration of 50 nM.¹ Doses of 10 mg/kg (oral) or 1 mg/kg (intraduodenal) have been shown to prevent rabbit carotid artery thrombosis.

Reference

1. Maurin, N. Influence on platelet activity and red cell fluidity of epoprostenol and two stable prostacyclin analogues in vitro. Arzneim. -Forsch. Drug Res. 36(8), 1180-1183 (1986).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

SAFETY DATA This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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