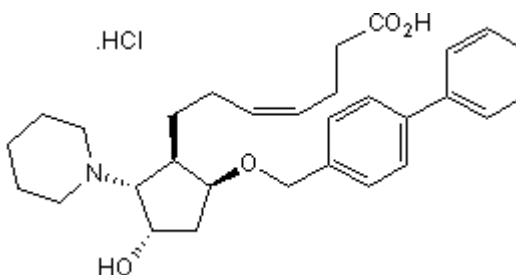


Product Name: GR 32191 hydrochloride **Catalog No.:** 1958 **Batch No.:** 1
CAS Number: 85505-64-2
IUPAC Name: (4Z)-7-[(1R,2R,3S,5S)-5-([1,1'-Biphenyl]-4-ylmethoxy)-3-hydroxy-2-(1-piperidinyl)cyclopentyl]-4-heptenoic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₃₉NO₄.HCl
Batch Molecular Weight: 514.1
Physical Appearance: Off-white solid
Solubility: water to 25 mM
 ethanol to 50 mM
 DMSO to 50 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.38 (Ethyl acetate:Petroleum ether [10:2])
Melting Point: At 133°C
HPLC: Shows >98.7% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.09	7.84	2.72
Found	70.25	7.93	2.68

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent thromboxane A₂ (TP) receptor antagonist. Inhibits platelet aggregation (pA₂ ~ 8.3) and relaxes vascular and airway smooth muscle (pA₂ = 7.9 - 10.3).

Physical and Chemical Properties:

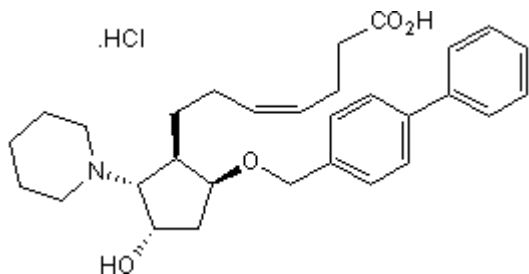
Batch Molecular Formula: C₃₀H₃₉NO₄.HCl

Batch Molecular Weight: 514.1

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 25 mM
ethanol to 50 mM
DMSO to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Lumley et al (1989) GR32191, a highly potent and specific thromboxane A₂ receptor blocking drug on platelets and vascular and airways smooth muscle *in vitro*. Br.J.Pharmacol. **97** 783. PMID: 2527074.

Takahara et al (1990) The response to thromboxane A₂ analogues in human platelets. J.Biol.Chem. **265** 6836. PMID: 2139029.

Ogletree and Allen (1992) Interspecies differences in thromboxane receptors: studies with thromboxane receptor antagonists in rat and guinea pig smooth muscles. J.Pharmacol.Exp.Ther. **260** 789. PMID: 1531361.

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