

Product Name: CI 1020

Catalog No.: 2942

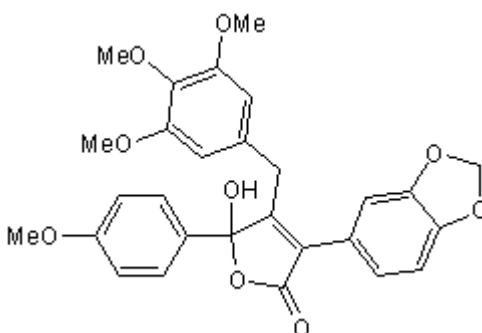
Batch No.: 2

CAS Number: 162256-50-0

IUPAC Name: 3-(1,3-Benzodioxol-5-yl)-5-hydroxy-5-(4-methoxyphenyl)-4-[(3,4,5-trimethoxyphenyl)methyl]-2(5*H*)-furanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₂₆O₉
Batch Molecular Weight: 506.5
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.26 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 98.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.4	5.17	
Found	66.28	5.14	

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

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Description:

Highly selective, orally active, non-peptide endothelin-A receptor (ET_A) antagonist (IC₅₀ values are 0.3 and 480 nM for ET_A and ET_B receptors respectively). Antihypertensive; blocks ET-1-induced pressor responses following oral administration.

Physical and Chemical Properties:

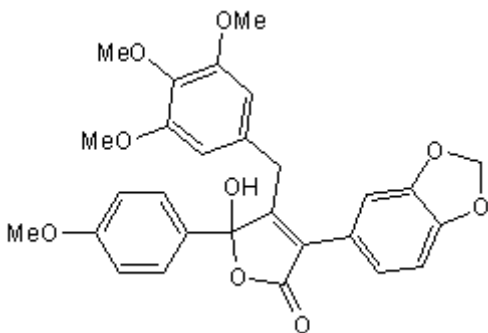
Batch Molecular Formula: C₂₈H₂₆O₉

Batch Molecular Weight: 506.5

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

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:

Doherty et al (1995) Discovery of a novel series of orally active non-peptide endothelin-A (ET_A) receptor-selective antagonists. *J.Med.Chem.* **38** 1259. PMID: 7731010.

Jones et al (1999) The effect of the endothelin ET_A receptor antagonist CI-1020 on hypoxic pulmonary vasoconstriction. *Eur.J.Pharmacol.* **374** 367. PMID: 10422781.

Coe et al (2002) The endothelin A receptor antagonists PD 156707 (CI-1020) and PD 180988 (CI-1034) reverse the hypoxic pulmonary vasoconstriction in their perinatal lamb. *J.Pharmacol.Exp.Ther.* **302** 672. PMID: 12130731.

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