

Certificate of Analysis

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Product Name: KF 38789

Catalog No.: 2748

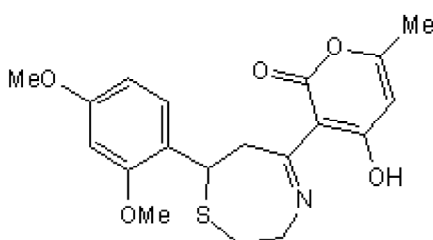
Batch No.: 2

CAS Number: 257292-29-8

IUPAC Name: 3-[7-(2,4-Dimethoxyphenyl)-2,3,6,7-tetrahydro-1,4-thiazepin-5-yl]-4-hydroxy-6-methyl-2H-pyran-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₁NO₅S
Batch Molecular Weight: 375.44
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.78	5.64	3.73
Found	60.54	5.77	3.73

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

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Description:

KF 38789 is a selective inhibitor of P-selectin-mediated cell adhesion ($IC_{50} = 1.97 \mu M$) that displays no effects on L-selectin- and E-selectin-mediated adhesion. KF 38789 blocks P-selectin-mediated binding in vitro and leukocyte accumulation in vivo.

Physical and Chemical Properties:

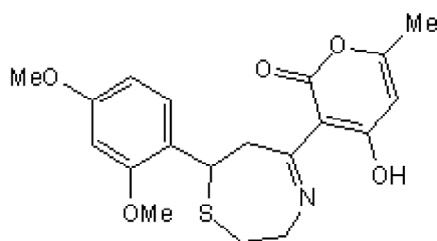
Batch Molecular Formula: $C_{19}H_{21}NO_5S$

Batch Molecular Weight: 375.44

Physical Appearance: Yellow solid

Minimum Purity: $\geq 97\%$

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 100 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Kaila *et al* (2007) Synthesis and biological evaluation of quinoline salicylic acids as P-selectin antagonists. *J.Med.Chem.* **50** 21. PMID: 17201408.

Ohta *et al* (2001) Inhibition of P-selectin specific cell adhesion by a low molecular weight, non-carbohydrate compound, KF38779. *Inflamm.Res.* **50** 544. PMID: 11766994.

Haggerty *et al* (2000) Dissecting cellular processes using small molecules: identification of colchicine-like, taxol-like and other small molecules that perturb mitosis. *Chem.Biol.* **7** 275. PMID: 10780927.

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