

**Product Name:** KF 38789

**Catalog No.:** 2748

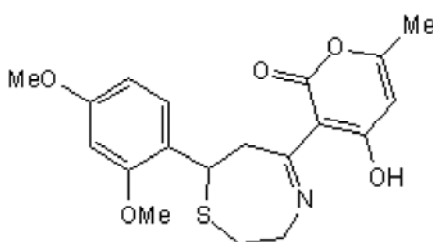
**Batch No.:** 2

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:** C<sub>19</sub>H<sub>21</sub>NO<sub>5</sub>S  
**Batch Molecular Weight:** 375.44  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 97.4% purity  
**<sup>1</sup>H 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

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**Description:**

KF 38789 is a selective inhibitor of P-selectin-mediated cell adhesion (IC<sub>50</sub> = 1.97 μM) 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:**

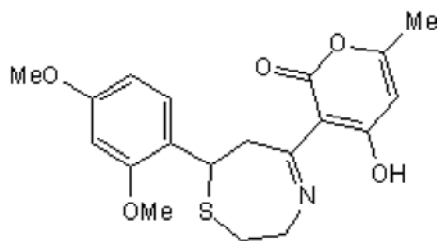
Batch Molecular Formula: C<sub>19</sub>H<sub>21</sub>NO<sub>5</sub>S

Batch Molecular Weight: 375.44

Physical Appearance: Off-white solid

**Minimum Purity:** ≥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. 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:**

**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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