

**Product Name:** L-798,106

**Catalog No.:** 3342

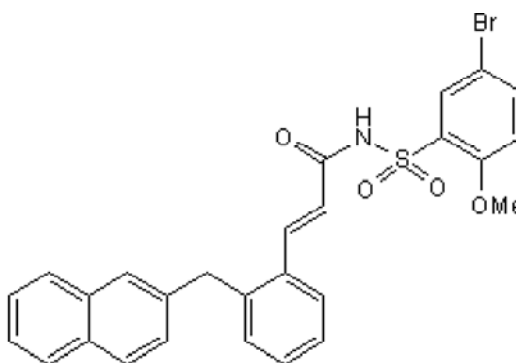
**Batch No.:** 5

CAS Number: 244101-02-8

IUPAC Name: N-[(5-Bromo-2-methoxyphenyl)sulfonyl]-3-[2-(2-naphthalenylmethyl)phenyl]-2-propenamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>27</sub>H<sub>22</sub>BrNO<sub>4</sub>S  
**Batch Molecular Weight:** 536.44  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.46 (Chloroform: Ethyl Acetate [3:2])  
**HPLC:** Shows 99.1% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	60.45	4.13	2.61
Found	60.37	4.12	2.49

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

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**Description:**

Potent and highly selective prostanoid EP<sub>3</sub> receptor antagonist (K<sub>i</sub> values are 0.3, 916, > 5000 and > 5000 nM at EP<sub>3</sub>, EP<sub>4</sub>, EP<sub>1</sub> and EP<sub>2</sub> respectively). Attenuates sulprostone-induced inhibition of EFS-evoked twitch and contractile responses in vivo.

**Physical and Chemical Properties:**

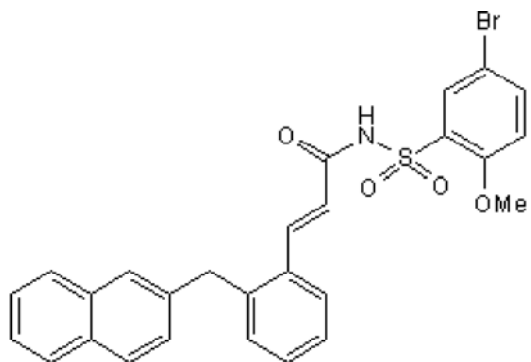
Batch Molecular Formula: C<sub>27</sub>H<sub>22</sub>BrNO<sub>4</sub>S

Batch Molecular Weight: 536.44

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**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:**

**Bassil et al** (2008) Activation of prostaglandin EP receptors by lubiprostone in rat and human stomach and colon. *Br.J.Pharmacol.* **154** 126. PMID: 18332851.

**Clarke et al** (2004) E-ring 8-isoprostanes inhibit ACh release from parasympathetic nerves innervating guinea-pig trachea through agonism of prostanoid receptors of the EP<sub>3</sub>-subtype. *Br.J.Pharmacol.* **141** 600. PMID: 14744812.

**Juteau et al** (2001) Structure-activity relationships of cinnamic acylsulfonamide analogues on human EP<sub>3</sub> prostanoid receptor. *Bioorg.Med.Chem.* **9** 1977. PMID: 11504634.

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