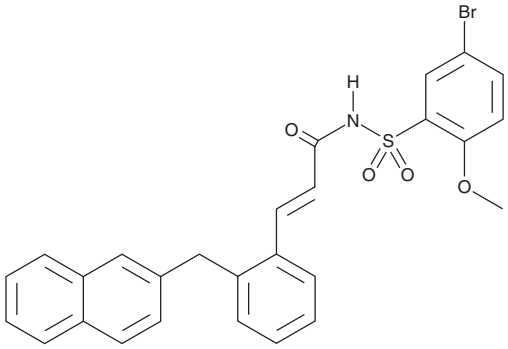
PRODUCT INFORMATION

L-798,106

Item No. 11129

CAS Registry No.:	244101-02-8
Formal Name:	(2E)-N-[(5-bromo-2-methoxyphenyl)sulfonyl]-3-[2-(2-naphthalenylmethyl)phenyl]-2-propenamide
Synonyms:	CM 9, GW 671021
MF:	$C_{27}H_{22}BrNO_4S$
FW:	536.4
Purity:	≥95%
UV/Vis.:	λ_{max}: 221, 285 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

L-798,106 is supplied as a crystalline solid. A stock solution may be made by dissolving the L-798,106 in the solvent of choice. L-798,106 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of L-798,106 in these solvents is approximately 10 and 20 mg/ml, respectively.

L-798,106 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

Prostaglandin E_2 (Item No. 14010) exerts its effects through four separate G protein-coupled receptors (EP_1, EP_2, EP_3, and EP_4).[1] L-798,106 is a highly selective EP_3 receptor antagonist with K_i values of 0.3, 916, >5,000, and >5,000 nM at EP_3, EP_4, EP_1, and EP_2, respectively.[2] At 0.2 µM, it blocks the EP_3 agonist activity of sulprostone (Item No. 14765) on guinea pig vas deferens and trachea.[3]

References

1. Coleman, R.A., Smith, W.L., and Narumiya, S. Classification of prostanoid receptors: Properties, distribution, and structure of the receptors and their subtypes. *Pharmacol. Rev.* **46**, 205-229 (1994).
2. Juteau, H., Gareau, Y., Labelle, M., *et al.* Structure-activity relationship of cinnamic acylsulfonamide analogues on the human EP_3 prostanoid receptor. *Bioorg. Med. Chem.* **9**, 1977-1984 (2001).
3. Jones, R.L., Giembycz, M.A., and Woodward, D.F. Prostanoid receptor antagonists: Development strategies and therapeutic applications. *Br. J. Pharmacol.* **158(1)**, 104-145 (2009).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM