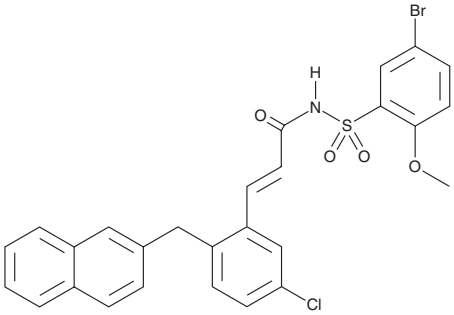
PRODUCT INFORMATION

L-826,266

Item No. 18538

CAS Registry No.:	244101-03-9
Formal Name:	(2E)-N-[(5-bromo-2-methoxyphenyl) sulfonyl]-3-[5-chloro-2-(2-naphthalenylmethyl)phenyl]-2-propenamide
MF:	$C_{27}H_{21}BrClNO_4S$
FW:	570.9
Purity:	≥98%
UV/Vis.:	λ_{max}: 222 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-826,266 is supplied as a crystalline solid. A stock solution may be made by dissolving the L-826,266 in the solvent of choice. L-826,266 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of L-826,266 in these solvents is approximately 10 and 20 mg/ml, respectively.

Description

L-826,266 is a potent and selective competitive antagonist of the prostaglandin E_2 receptor subtype EP_3 (K_i = 0.8 nM).[1] It also binds to the EP_4 receptor (K_i = 715 nM) but does not bind to EP_1 or EP_2 receptors up to a concentration of 5,000 nM. L-826,266 inhibits vasoconstriction induced by the EP_3 agonist sulprostone (Item No. 14765) in a concentration-dependent manner (EC_{50}s = 0.45-24.5 µM in isolated human pulmonary arteries).[2] It also inhibits sulprostone-induced norepinephrine and serotonin release in rat cortex and norepinephrine release in rat vas deferens (pA_2s = 7.56, 7.67, and 7.87, respectively).[3]

References

1. 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(8)**, 1977-1984 (2001).
2. Kozłowska, H., Baranowska-Kuczko, M., Schlicker, E., *et al.* EP_3 receptor-mediated contraction of human pulmonary arteries and inhibition of neurogenic tachycardia in pithed rats. *Pharmacol. Rep.* **64(6)**, 1526-1536 (2012).
3. Günther, J., Schulte, K., Wenzel, D., *et al.* Prostaglandins of the E series inhibit monoamine release *via* EP_3 receptors: Proof with the competitive EP_3 receptor antagonist L-826,266. *Naunyn Schmiedebergs Arch. Pharmacol.* **381(1)**, 21-31 (2010).

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