



Catalog # 10-1389

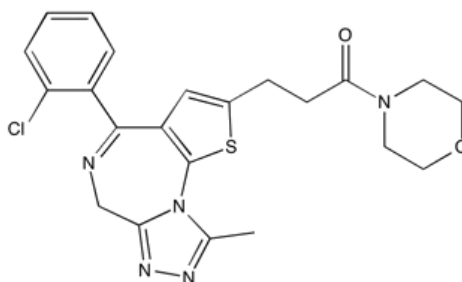
WEB-2086

105219-56-5

4-[3-[4[(2-Chlorophenyl)-9-methyl-6H-thieno[3,2-f][1,2,4]triazolo[4,3-a]diazepin-2-yl]-1-oxopropyl]morpholine

Apafant

Lot # X104727



Potent and selective antagonist of the platelet activating factor (PAF) receptor ($K_i = 16.3 \text{ nM}$)¹. Displays an activity profile which includes antiinflammatory, antiangiogenesis and anticancer activity². Along with leukotriene antagonists, cooperatively provides a robust anti-inflammatory effect regulating PMNL migration and edema formation³. Displays analgesic effects in animal models of neuropathic pain⁴. Active *in vivo*.

- 1) Dent *et al.* (1989), *Characterization of PAF receptors on human neutrophils using the specific antagonist WEB 2086. Correlation between receptor binding and function*; FEBS Lett., **244** 365
- 2) Cellai *et al.* (2006), *Growth inhibition and differentiation of human breast cancer cells by PAFR antagonist WEB-2086*; Br. J. Cancer, **94** 1637
- 3) Bitencourt *et al.* (2013), *Cooperative role of endogenous leucotrienes and platelet-activating factor in ischaemia-reperfusion-mediated tissue injury*; J. Cell. Mol. Med., **17** 1554
- 4) Motoyama *et al.* (2013), *Pain-releasing action of platelet-activating factor (PAF) antagonists in neuropathic pain animal models and the mechanisms of action*; Eur. J. Pain, **17** 1156

PHYSICAL DATA

Molecular Weight:	455.96
Molecular Formula:	C ₂₂ H ₂₂ ClN ₅ O ₂ S
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml), Ethanol (up to 25 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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