

Catalog # 10-1589

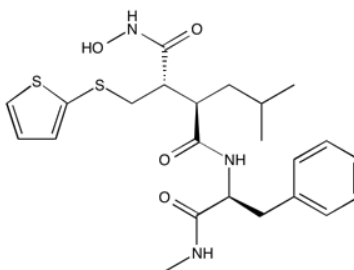
Batimastat

CAS# 130370-60-4

BB-94

(2R,3S)-N4-Hydroxy-N1-[(1S)-2-(methylamino)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-[(2-thienylthio)methyl]butanediamide

Lot # X106407



Potent, broad spectrum MMP inhibitor (IC_{50} =3, 4, 4, 6 and 20 nM for MMPs -1, -2, -9, -7 and -3 respectively). Exhibits antiproliferative, anti-invasive and antimetastatic activity in human colon¹, ovarian² and prostate³ xenografts *in vivo*. Attenuates neuroinflammation following focal cerebral ischemia in mice.⁴ Inhibits α -secretase.⁵ Inhibits snake venom (*Bothrops asper*) lethality.⁶

- 1) Wang *et al.* (1994), *Matrix metalloproteinase inhibitor BB-94 (batimastat) inhibits human colon tumor growth and spread in a patient-like orthotopic model in nude mice*; *Cancer Res.*, **54** 4726
- 2) Davies *et al.* (1993), *A synthetic matrix metalloproteinase inhibitor decreases tumor burden and prolongs survival of mice bearing human ovarian carcinoma xenografts*; *Cancer Res.*, **53** 2087
- 3) Lein *et al.* (2000), *Synthetic inhibitor of matrix metalloproteinase (batimastat) reduces prostate cancer growth in an orthotopic rat model*; *Prostate*, **43** 77
- 4) Park *et al.* (2011), *Matrix metalloproteinase inhibitors attenuate neuroinflammation following focal cerebral ischemia in mice*; *Korean J. Physiol. Pharmacol.*, **15** 115
- 5) Dubrovskaya *et al.* (2006), *Effects of an inhibitor of alpha-secretase, which metabolizes the amyloid peptide precursor, on memory formation in rats*; *Neurosci. Behav. Physiol.*, **36** 911
- 6) Rucavado *et al.* (2004), *Effects of the metalloproteinase inhibitor batimastat in the systemic toxicity induced by Bothrops asper snake venom: understanding the role of metalloproteinases in envenomation*; *Toxicon*, **43** 417

PHYSICAL DATA

Molecular Weight:	477.64
Molecular Formula:	C ₂₃ H ₃₁ N ₃ O ₄ S ₂
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 45 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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

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