

## Catalog # 10-1589 Batimastat

CAS# 130370-60-4

BB-94

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

Lot # X106407



Potent, broad spectrum MMP inhibitor (IC<sub>50</sub> =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 colon<sup>1</sup>, ovarian<sup>2</sup> and prostate<sup>3</sup> xenografts *in vivo*. Attenuates neuroinflam-mation following focal cerebral ischemia in mice.<sup>4</sup> Inhibits  $\alpha$ -secretase.<sup>5</sup> Inhibits snake venom (*Bothrops asper*) lethality.<sup>6</sup>

- 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 zenografts; Cancer Res., **53** 2087
- 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 <sub>23</sub> H <sub>31</sub> N <sub>3</sub> O <sub>4</sub> S <sub>2</sub>
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.

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