



Catalog # 10-1563

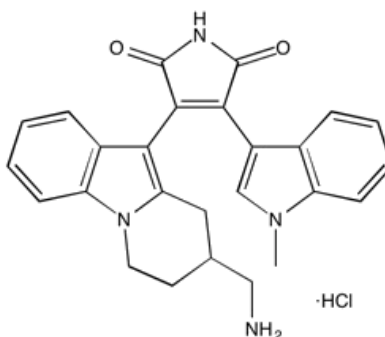
Ro 31-8425

CAS# 145317-11-9

Bisindolylmaleimide X; BIM X

3-[8-(Aminomethyl)-6,7,8,9-tetrahydropyrido[1,2-a]indol-10-yl]-4-(1-methylindol-3-yl)pyrrol-2,5-dione hydrochloride

Lot # X106555



Selective, reversible, ATP-competitive inhibitor of protein kinase C. Inhibits PKC α , β 1, β 2, γ and ϵ , IC₅₀= 8, 8, 14, 13 and 39 nM respectively.¹ Extremely useful tool for probing PKC-dependent physiology² or signaling pathways³. Increases MSC adhesion to an ICAM-1 coated substrate *in vitro* and enables targeted delivery of systematically administered MSCs to inflamed sites *in vivo* in a CD11a-dependent manner.⁴ Cell permeable.

- 1) Wilkinson *et al.* (1993), *Isoenzyme specificity of bisindolylmaleimides, selective inhibitors of protein kinase C*; Biochem. J., **294** 335
- 2) Niu *et al.* (2011), *PKC ϵ regulates contraction-stimulated GLUT4 traffic in skeletal muscle cells*; J. Cell Physiol., **226** 173
- 3) Jimenez-Lopez *et al.* (2005), *Protein kinase C signaling as a survival pathway against CYP2E1-derived oxidative stress and toxicity in HepG2 cells*; J. Pharmacol. Exp. Ther., **312** 998
- 4) Levy *et al.* (2015), *A small-molecule screen for enhanced homing of systemically infused cells*; Cell Rep., **10** 1261

PHYSICAL DATA

Molecular Weight:	460.96
Molecular Formula:	C ₂₆ H ₂₄ N ₄ O ₂ · HCl
Purity:	98% by TLC NMR: (Conforms)
Solubility:	DMSO (up to 10 mg/ml)
Physical Description:	Red solid
Storage and Stability:	Store as supplied desiccated 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.