



Catalog # 10-1603

Ro 31-6045

CAS# 113963-68-1

1-Methyl-3,4-bis(indol-3-yl)maleimide

Bisindolylmaleimide V; BIM V

Lot # X106907

This bis indolylmaleimide derivative is a potent inhibitor of the mitogen-stimulated protein kinase p70 (S6K) acting independently of its upstream activator mTOR.¹ Does not inhibit PKC (at concentrations <100 μ M) and therefore may be used as a negative control for bisindolylmaleimide PKC inhibitors² such as GF 109203X³ and other structurally related inhibitors⁴.

- 1) Marmy-Conus et al. (2002), *Ro 31-6045, the inactive analogue of the protein kinase C inhibitor Ro 31-8220, blocks in vivo activation of p70(s6k)/p85(s6k): implications for the analysis of S6K signalling*; FEBS Lett., **519** 135
- 2) Harmon et al. (1997), *Bisindolylmaleimide protein-kinase C inhibitors delay in the decline in DNA synthesis in mouse hair follicle organ cultures*; Skin Pharmacol., **10** 71
- 3) Toullec et al. (1991), *The bisindolylmaleimide GF 109203X is a potent and selective inhibitor of protein kinase C*; J. Biol. Chem., **266** 15771
- 4) Davis et al. (1992), *Inhibitors of protein kinase C. 1. 2,3-Bisarylmaleimides*; J. Med. Chem., 35 177

PHYSICAL DATA

Molecular Weight:	341.36
Molecular Formula:	C ₂₁ H ₁₅ N ₃ O ₂
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 35 mg/ml) or in Ethanol (up to 9 mg/ml)
Physical Description:	Orange solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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