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Specialists in Signaling Proteins
1-866-9 KINASE (54-6273)

Catalog #	Aliquot Size
R21-901-1	1 mg
R21-901-5	5 mg

Ro 31-6045

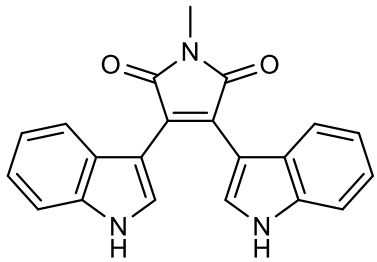
Protein Kinase p70 (S6K) inhibitor

Catalog # R21-901
Lot # D3370-16
CAS # 113963-68-1

Product Description

Molecular Formula: $C_{21}H_{15}N_3O_2$
Appearance: Orange powder
Molecular Weight: 341.4
Purity: >98% (HPLC, TLC); NMR (conforms)
Solubilization: May be dissolved in DMSO (35 mg/ml); or ethanol (9 mg/ml)

Molecular Structure



Alias

1-Methyl-3,4-bis(indol-3-yl)maleimide; Bisindolylmaleimide V; BIM V

Specific Activity

Protein Kinase p70 (S6K) inhibitor

Storage and Stability

Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 3 months.

Scientific Background

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 μM) and therefore may also be used as a negative control for bisindolylmaleimide PKC inhibitors[2] such as GF 109203X[3] and other structurally related inhibitors[4]

References

1. N Marmy-Conus et al. FEBS Lett. 2002 519:135
2. CS Harmon et al. Skin Pharmacol. 1997 10:71
3. D Toullec et al. J. Biol. Chem. 1991 266:15771
4. PD Davis et al. J. Med. Chem. 1992 35:177

Ro 31-6045
Protein Kinase p70 (S6K) inhibitor

Catalog #	R21-901
CAS #	113963-68-1
Lot #	D3370-16
Purity	>98% (HPLC, TLC); NMR (conforms)
Format	Orange powder
Solubilization	May be dissolved in DMSO (35 mg/ml); or ethanol (9 mg/ml)
Storage & Shipping	Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 3 months.

To place your order, please contact us by phone 1-(604)-232-4600, fax 1-604-232-4601 or by email: orders@signalchem.com
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