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DATASHEET

Ro-32-0432

Product overview

Name	Ro-32-0432
Cat No	HB0560
Biological action	Inhibitor
Description	Potent, selective PKC inhibitor

Biological Data

Biological description	Potent and selective protein kinase C inhibitor (IC ₅₀ values are 21, 9, 28, 31, 37 and 108 nM for PKC, PKC- α , PKC- β 1, PKC- β 2, PKC- γ and PKC- ϵ respectively). Displays 10 -and 4- fold selectivity for PKC- α and PKC- β 1 over PKC- ϵ respectively. Also a G protein-coupled receptor kinase 5 inhibitor. Cell permeable. Displays anti-inflammatory properties.
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Solubility & Handling

Solubility overview	Soluble in DMSO
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Bisindolylmaleimide XI hydrochloride
Molecular Weight	489.01
Chemical structure	
Molecular Formula	C ₂₈ H ₂₈ N ₄ O ₂ HCl
CAS Number	151342-35-7
PubChem identifier	11605551
SMILES	CN1C=C(C2=CC=CC=C21)C3=C(C(=O)NC3=O)C4=C5CC(CCN5C6=CC=CC=C64)CN(C)C.Cl

References

Ro 32-0432, a selective and orally active inhibitor of protein kinase C prevents T-cell activation.

Birchall AM *et al* (1994) J Pharmacol Exp Ther 268(2)

PubMedID [8114006](#)

Isoenzyme specificity of bisindolylmaleimides, selective inhibitors of protein kinase C.

Wilkinson SE *et al* (1993) Biochem J 294 (Pt 2)

PubMedID [8373348](#)

Ro 32-0432 attenuates mecamylamine-precipitated nicotine withdrawal syndrome in mice.

Singh TG *et al* (2013) Naunyn Schmiedebergs Arch Pharmacol 386(3)

PubMedID [23274455](#)

