
Product Data Sheet

Product Name: Bisindolylmaleimide XI (hydrochloride)

Cat. No.: GC18716

Chemical Properties

Cas. No. 145333-02-4

Chemical Name 3-[8-[(dimethylamino)methyl]-6,7,8,9-tetrahydropyrido[1,2-a]indol-10-yl]-4-(1-methyl-1H-indol-3-yl)-1H-pyrrole-2,5-dione, monohydrochloride

SMILES O=C(NC1=O)C(C2=CNC3=C2C=CC=C3)=C1C4=C5N(CCC(CN(C)C)C5)C6=CC=CC=C64.Cl

Formula $C_{28}H_{28}N_4O_2 \cdot HCl$

M.Wt 489

Solubility DMSO : 5 mg/mL (10.22 mM; Need ultrasonic and warming) Storage Store at -20°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or Condition blue ice upon request.

Structure

Background

Bisindolylmaleimide XI (BIM XI) is a selective, cell-permeable protein kinase C (PKC) inhibitor that displays 10-fold greater selectivity for PKC α (IC₅₀ = 9 nM) and 4-fold greater selectivity for PKC β (IC₅₀ = 28 nM) over Ca²⁺-independent PKC ϵ (IC₅₀ = 108 nM). Inhibition of PKC α by BIM XI and other similar PKC inhibitors has been associated with enhanced cardiac contractility and protection from heart failure. BIM XI prevents T-cell activation and proliferation (with IC₅₀s ranging from 30-150 nM) associated with chronic inflammatory responses in vivo.

Caution: Product has not been fully validated for medical applications. For research use only.

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