

#9841 Store at -20°C

Bisindolylmaleimide I, Hydrochloride


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Background	Bisindolylmaleimide I (BIS), also known as GF-109203X, is a potent inhibitor of PKC (1,2). <i>In vitro</i> , the IC ₅₀ of BIS is 10-20 nM for PKCα/β/γ and 100-200 nM for PKCδ/ε isoforms. The <i>in vitro</i> IC ₅₀ for PKCζ is approximately 6 μM, indicating that BIS is a very weak inhibitor for this isoform. In <i>in vivo</i> cellular assays, the IC ₅₀ of BIS for PKC is 0.2-2 μM (1,3).
Molecular Formula	C ₂₅ H ₂₄ N ₄ O ₂ • HCl
Molecular Weight	448.94 g/mol
Purity	>99%
CAS	176504-36-2
Solubility	Soluble in DMSO at 1mg/ml.
Storage	Store lyophilized or in solution at -20°C, desiccated. Protect from light. In lyophilized form, the chemical is stable for 24 months. Once in solution, use within 3 months to prevent loss of potency. Aliquot to avoid multiple freeze/thaw cycles.
Directions for Use:	Bisindolylmaleimide I is supplied as 500 μg powder. Store at or below -20°C. Before use, dissolve powder in 0.28 ml DMSO to make a 4 mM bisindolylmaleimide I stock solution. For working concentrations of 2 μM-4 μM, dilute DMSO stock 1:2000 to 1:1000. Treat cells with the desired concentration for 30 minutes.
Background References	1. Toullec, D. et al. (1991) <i>J. Biol. Chem.</i> 266, 15771-15781. 2. Martiny-Baron, G. et al. (1993) <i>J. Biol. Chem.</i> 268, 9194-9197. 3. Heikkilä, J. et al. (1993) <i>Biochem. Biophys. Res. Commun.</i> 197, 1185-1193.

Cross-Reactivity Key **H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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