1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( \text{C}_{25}\text{H}_{24}\text{N}_{4}\text{O}_{2} \cdot \frac{1}{4}\text{H}_{2}\text{O} \)
- **Batch Molecular Weight:** 416.99
- **Physical Appearance:** Orange solid
- **Solubility:** DMSO to 25 mM
- **Storage:** Store at RT

2. ANALYTICAL DATA

- **TLC:** \( R_f = 0.09 \) (Chloroform:Methanol [9:1])
- **HPLC:** Shows 98.0% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  - Theoretical: 72.01, 5.92, 13.44
  - Found: 71.85, 6.03, 13.06

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Information

Product Name: GF 109203X
Catalog No.: 0741
Batch No.: 6

CAS Number: 133052-90-1
IUPAC Name: 2-[1-(3-Dimethylaminopropyl)indol-3-yl]-3-(indol-3-yl) maleimide

Description:
Very potent and selective inhibitor of protein kinase C, selective for the α and β1 isoforms (IC_{50} values are 0.0084, 0.0180, 0.210, 0.132, and 5.8 μM for α, β1, δ, ε and ζ isoforms respectively). Selective over MLCK, PKG and PKA (IC_{50} values are 0.6, 4.6, and 33 μM respectively). Potent antagonist at the 5-HT_{3} receptor (K_{i} = 29.5 nM). Anti-inflammatory in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C_{25}H_{24}N_{6}O_{2.1/4}H_{2}O
Batch Molecular Weight: 416.99
Physical Appearance: Orange solid
Minimum Purity: >98%

Storage: Store at RT

Solubility & Usage Info:
DMSO to 25 mM
When purchased as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: