Product Name: PKC 412
Catalog No.: 2992  Batch No.: 4

CAS Number: 120685-11-2  
IUPAC Name: \([9S-(9\alpha,10\beta,11\beta,13\alpha)]-N-(2,3,10,11,12,13-Hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-\text{gh}:3',2',1'-\text{lm}][3,4-\text{ij}][1,7]benzodiazonin-11-yl)-N-methylbenzamide\)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \(C_{35}H_{30}N_4O_4\)
Batch Molecular Weight: 570.64
Physical Appearance: White solid
Solubility: DMSO to 15 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

TLC: \(R_f = 0.62\) (Acetone:Hexane:Water [72:28:1])
HPLC: Shows 100% purity

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

bio-techne.com  info@bio-techne.com  techsupport@bio-techne.com
North America  Tel: (800) 343 7475
China  info.cn@bio-techne.com  Tel: +86 (21) 52380373
Europe Middle East Africa  Tel: +44 (0)1235 529449
Rest of World  www.tocris.com/distributors  Tel:+1 612 379 2956
**Product Name:** PKC 412  
**Catalog No.:** 2992  
**Batch No.:** 4

**CAS Number:** 120685-11-2  
**IUPAC Name:** \([9S-(9\alpha,10\beta,11\beta,13\alpha)]-N-(2,3,10,11,12,13-Hexahydro-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrololo[3,4-j][1,7]benzodiazonin-11-yl)-N-methylbenzamide\)

**Description:**  
Broad spectrum protein kinase inhibitor. Inhibits conventional PKC isoforms (α, β, γ), PDFRβ, VEGFR2, Syk, PKCη, Flk-1, Flt3, Cdk1/B, PKA, c-Kit, c-Fgr, c-Src, VEGFR1 and EGFR. Displays potent antitumor activity.

**Physical and Chemical Properties:**

- **Batch Molecular Formula:** C_{30}H_{32}N_{2}O_{4}
- **Batch Molecular Weight:** 570.64
- **Physical Appearance:** White solid
- **Minimum Purity:** >98%

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 15 mM  
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:**


Tenzer *et al* (2001) The phosphatidylinositol 3'-kinase/Akt survival pathway is a target for the anticancer and radiosensitizing agent PKC412, an inhibitor of protein kinase C. Cancer Res. 61 8203. PMID: 11719451.