**Product overview**

**Name**  
PKC-412

**Cat No**  
HB0521

**Short description**  
Broad spectrum protein kinase inhibitor

**Biological description**  
Broad spectrum protein kinase inhibitor. Inhibits PKC (isoforms α, β and γ), Syk, FLK-1, PKA, c-kit, Akt, FLT3, VEGFR1, VEGFR2, EGFR and c-src. Also selectively blocks TNF-α production. Displays antitumor, antiproliferative and pro-apoptotic properties.

**Alternative names**  
CGP 41251; Midostaurin; 4’-N-benzoylstaurosporine; PKC412

**Biological action**  
Inhibitor

**Purity**  
>96%

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**Properties**

**Chemical name**  
Midostaurin; 4’-N-benzoylstaurosporine

**Molecular Weight**  
570.64

**Chemical structure**

![Chemical structure diagram]

**Molecular Formula**  
C35H30N4O4

**CAS Number**  
120685-11-2

**PubChem identifier**  
0

**SMILES**

```
CO[O][C@@H][O][C@H]2O[O][O]1(C)n3c4cccc4c5c6CNC(=O)c6c7c8ccccc8n2c7c35)c9cccccc9
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**Storing and Using Your Product**

**Solubility overview**  
Soluble in DMSO (15mg/ml) or MDC (10mg/ml)

**Important**  
This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

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**References for PKC-412**
PKC412—a protein kinase inhibitor with a broad therapeutic potential.
PubMedID: 10888033

Effects of the kinase inhibitor CGP41251 (PKC 412) on lymphocyte activation and TNF-alpha production.
PubMedID: 15914319

The phosphatidylinositide 3'-kinase/Akt survival pathway is a target for the anticancer and radiosensitizing agent PKC412, an inhibitor of protein kinase C.
PubMedID: 11719451

PKC412 induces apoptosis through a caspase-dependent mechanism in human keloid-derived fibroblasts.
PubMedID: 15306200