Datasheet

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%

Properties

Chemical name
Midostaurin; 4'-N-benzoylstaurosporine
Molecular Weight
570.64
Chemical structure

Molecular Formula
C_{35}H_{30}N_{4}O_{4}
CAS Number
120685-11-2
PubChem identifier
0
SMILES
CO[C@]1(C)[C@@H][C@H]20(C@]1(C)n3c4cccccc4c5c6CNC(=O)c6c7c8cccccc8n2c7c35)N(C)C(=O)c9cccccc9

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.

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