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DATASHEET

PKC-412

Product overview

Name	PKC-412
Cat No	HB0521
Alternative names	CGP 41251; Midostaurin; 4'-N-benzoylstauosporine; PKC412
Biological action	Inhibitor
Purity	>96%
Description	Broad spectrum protein kinase inhibitor

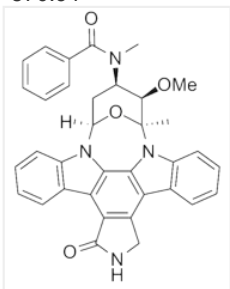
Biological Data

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.
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Solubility & Handling

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.

Chemical Data

Chemical name	Midostaurin; 4'-N-benzoylstauosporine
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	<chem>CO[C@]1(C)[C@@H]([C@H]2O[C@]1(C)n3c4cccc4c5c6CNC(=O)c6c7c8cccc8n2c7c35)N(C)C(=O)c9cccc9</chem>

References

PKC412--a protein kinase inhibitor with a broad therapeutic potential.

Fabbro D *et al* (2000) Anticancer Drug Des 15(1)

PubMedID 10888033

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

Si MS *et al* (2005) *Int Immunopharmacol* 5(7-8)

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.

Tenzer A *et al* (2001) *Cancer Res* 61(22)

PubMedID 11719451

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

Nakazono-Kusaba A *et al* (2004) *Eur J Pharmacol* 497(2)

PubMedID 15306200
