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DATASHEET

PKC-412

Product overview

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

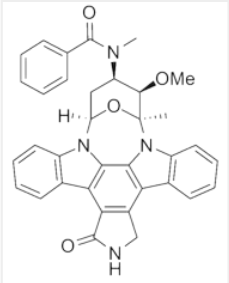
Biological Data

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.

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-benzoylstaurosporine
Molecular Weight	570.64
Chemical structure	
Molecular Formula	$C_{35}H_{30}N_4O_4$
CAS Number	120685-11-2
PubChem identifier	0
SMILES	CO[C@]1(C)[C@@H]([C@H]2O[C@]1(C)n3c4ccccc4c5c6CNC(=O)c6c7c8ccccc8n2c7c35)N(C)C(=O)c9ccccc9

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

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