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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

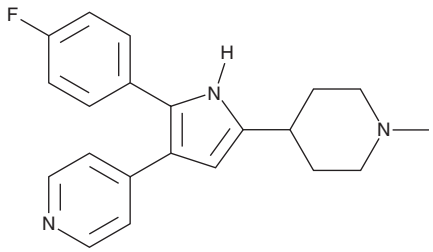
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

MBP146-78

Item No. 41083

CAS Registry No.:	188343-77-3
Formal Name:	4-[2-(4-fluorophenyl)-5-(1-methyl-4-piperidinyl)-1H-pyrrol-3-yl]-pyridine
MF:	$C_{21}H_{22}FN_3$
FW:	335.4
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

MBP146-78 is supplied as a solid. A stock solution may be made by dissolving the MBP146-78 in the solvent of choice, which should be purged with an inert gas. MBP146-78 is slightly soluble (0.1-1 mg/ml) in ethanol and DMSO.

Description

MBP146-78 is an inhibitor of parasitic cGMP-dependent protein kinases (PKGs; IC_{50}s = 1.9 and 1 nM for the *E. tenella* and *T. gondii* enzymes, respectively).[1] It inhibits *P. berghei* sporozoite development into liver-stage parasites in HepG2 cells in a concentration-dependent manner.[2] MBP146-78 (50 mg/kg) prevents *P. yoelii* liver infection in *P. yoelii*-infected mice. It increases survival time in *P. berghei*-infected mice when administered at a dose of 50 mg/kg twice per day for eight days.[1] MBP146-78 (50 mg/kg two times per day) increases survival in *T. gondii*-infected mice and prevents secondary reinfection in the same mice.[3]

References

1. Diaz, C.A., Allocco, J., Powles, M.A., *et al.* Characterization of Plasmodium falciparum cGMP-dependent protein kinase (PfPKG): Antiparasitic activity of a PKG inhibitor. *Mol. Biochem. Parasitol.* **146(1),** 78-88 (2006).
2. Panchal, D. and Bhanot, P. Activity of a trisubstituted pyrrole in inhibiting sporozoite invasion and blocking malaria infection. *Antimicrob. Agents Chemother.* **54(10),** 4269-4274 (2010).
3. Nare, B., Allocco, J.J., Liberator, P.A., *et al.* Evaluation of a cyclic GMP-dependent protein kinase inhibitor in treatment of murine toxoplasmosis: Gamma interferon is required for efficacy. *Antimicrob. Agents Chemother.* **46(2),** 300-307 (2002).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM