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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

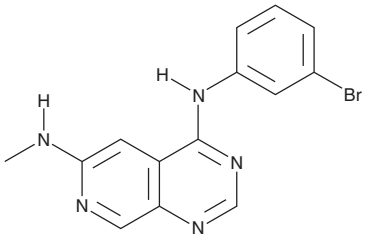
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

PD 158780

Item No. 13329

CAS Registry No.:	171179-06-9
Formal Name:	N^4-(3-bromophenyl)-N^6-methyl-pyrido[3,4-d]pyrimidine-4,6-diamine
MF:	$C_{14}H_{12}BrN_5$
FW:	330.2
Purity:	≥98%
UV/Vis.:	λ_{max}: 226, 312, 404 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

PD 158780 is supplied as a crystalline solid. A stock solution may be made by dissolving the PD 158780 in the solvent of choice. PD 158780 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of PD 158780 in these solvents is approximately 2, 10, and 30 mg/ml, respectively.

PD 158780 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

PD 158780 is a pyridopyrimidine derivative that reversibly inhibits auto and transphosphorylation of all four members of the ErbB receptor tyrosine kinase superfamily: EGFR (IC_{50} = 8 µM), ErbB2 (IC_{50} = 49 nM), ErbB3, and ErbB4 (IC_{50} = 52 nM).[1] It does not inhibit PDGF or FGF-mediated tyrosine phosphorylation.[1] At 0.5 µM, PD 158780 has been shown to induce G_1 cell cycle arrest in MCF10A breast cancer cells.[2]

References

1. Fry, D.W., Nelson, J.M., Slintak, V., *et al.* Biochemical and antiproliferative properties of 4-[Ar(alk)ylamino] pyridopyrimidines, a new chemical class of potent and specific epidermal growth factor receptor tyrosine kinase inhibitor. *Biochem. Pharmacol.* **54**, 877-887 (1997).
2. Gonzales, A.J. and Fry, D.W. G1 cell cycle arrest due to the inhibition of erbB family receptor tyrosine kinases does not require the retinoblastoma protein. *Exp. Cell Res.* **303**, 56-67 (2005).

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