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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



PD 158780

Item No. 13329

CAS Registry No.: 171179-06-9

Formal Name: N⁴-(3-bromophenyl)-N⁶-methylpyrido[3,4-d]pyrimidine-4,6-diamine

MF: C₁₄H₁₂BrN₅

FW: 330.2

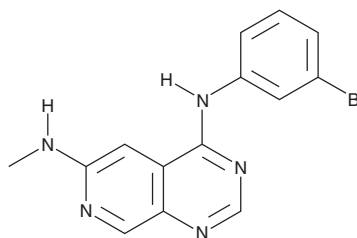
Purity: ≥98%

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 (IC₅₀ = 8 μM), ErbB2 (IC₅₀ = 49 nM), ErbB3, and ErbB4 (IC₅₀ = 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 G₁ 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).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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