



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

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](https://www.linkedin.com/company/szaboscandic) 

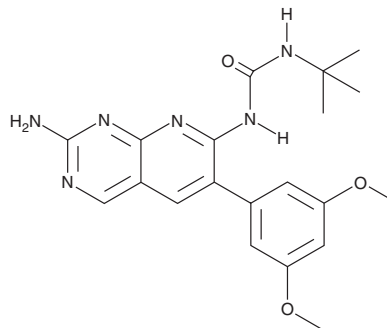
PRODUCT INFORMATION



PD 166866

Item No. 22464

CAS Registry No.: 192705-79-6
Formal Name: N-[2-amino-6-(3,5-dimethoxyphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)-urea
MF: C₂₀H₂₄N₆O₃
FW: 396.4
Purity: ≥98%
UV/Vis.: λ_{max}: 232, 365 nm
Supplied as: A crystalline 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

PD 166866 is supplied as a crystalline solid. A stock solution may be made by dissolving the PD 166866 in the solvent of choice, which should be purged with an inert gas. PD 166866 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of PD 166866 in ethanol is approximately 0.1 mg/ml and approximately 2 mg/ml in DMSO and DMF.

PD 166866 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PD 166866 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. PD 166866 has a solubility of approximately 0.14 mg/ml in a 1:6 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

PD 166866 is a potent inhibitor of fibroblast growth factor receptor 1 (FGFR1; IC₅₀ = 52.4 nM; K_i = 45.2 nM).¹ It is selective for FGFR1 over PDGFR, EGFR, C-SRC, MEK, PKC, insulin receptor tyrosine kinase, and CDK4 (IC₅₀s = >50 μM). PD 166866 inhibits FGFR1 autophosphorylation in NIH3T3 and L6 cells (IC₅₀s = 10.8 and 3.1 nM, respectively) and inhibits phosphorylation of MAPK (IC₅₀s = 4.3 and 7.9 nM for the 44- and 42-kDa MAPK isoforms, respectively). It reduces FGF- but not EGF- or PDGF-stimulated growth of L6 cells and inhibits microvessel outgrowth from human placental arteries *in vitro*. PD 166866 inhibits the growth of non-small cell lung cancer (NSCLC) cell lines in a dose-dependent manner and reduces migration of VL-8 cells at a concentration of 10 μM.²

References

1. Panek, R.L., Lu, G.H., Dahring, T.K., *et al.* *In vitro* biological characterization and antiangiogenic effects of PD 166866, a selective inhibitor of the FGF-1 receptor tyrosine kinase. *J. Pharmacol. Exp. Ther.* **286**(1), 569-577 (1998).
2. Fischer, H., Taylor, N., Allerstorfer, S., *et al.* Fibroblast growth factor receptor-mediated signals contribute to the malignant phenotype of non-small cell lung cancer cells: Therapeutic implications and synergism with epidermal growth factor receptor inhibition. *Mol. Cancer. Ther.* **7**(10), 3408-3419 (2008).

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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 12/15/2022

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