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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

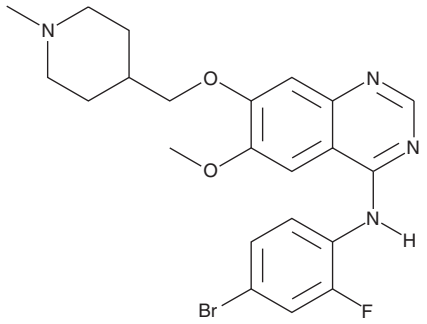
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Vandetanib

Item No. 14706

CAS Registry No.:	443913-73-3
Formal Name:	N-(4-bromo-2-fluorophenyl)-6-methoxy-7-[(1-methyl-4-piperidinyl) methoxy]-4-quinazolinamine
Synonyms:	CH 331, Zactima, ZD 6474
MF:	$C_{22}H_{24}BrFN_4O_2$
FW:	475.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 217, 250, 331 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

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

Vandetanib is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, vandetanib should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Vandetanib has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Vandetanib is a broad spectrum, orally available kinase inhibitor that targets primarily tyrosine kinases, including vascular endothelial growth factor receptor (VEGFR) and epidermal growth factor receptor (EGFR), with IC_{50} values in the nanomolar range.[1,2] It also potently blocks non-receptor tyrosine kinases, including ABL, RET, and SRC, as well as several serine/threonine kinases.[3,4] Primarily because of its effects on receptor tyrosine kinases like VEGFR and EGFR, vandetanib inhibits angiogenesis, cell growth, and metastasis and is effective against certain forms of cancer.[4,5]

References

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3. Davis, M.I., Hunt, J.P., Herrgard, S., *et al. Nat. Biotechnol.* **29(11)**, 1046-1051 (2011).
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5. Ton, G.N., Banaszynski, M.E., and Kolesar, J.M. *Am. J. Health-Syst. Pharm.* **70**, 849-855 (2013).

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