SZABO SCANDIC

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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

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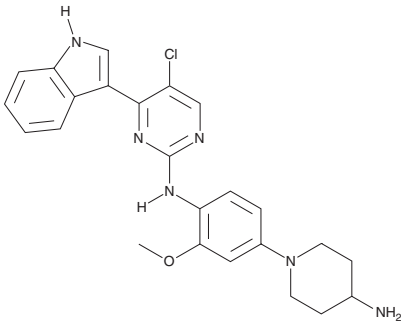
PRODUCT INFORMATION

AZD 3463

Item No. 26172



CAS Registry No.:	1356962-20-3
Formal Name:	N-[4-(4-amino-1-piperidinyl)-2-methoxyphenyl]-5-chloro-4-(1H-indol-3-yl)-2-pyrimidinamine
MF:	$C_{24}H_{25}ClN_6O$
FW:	449.0
Purity:	≥98%
UV/Vis.:	λ_{max}: 212, 276, 321 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

AZD 3463 is supplied as a crystalline solid. A stock solution may be made by dissolving the AZD 3463 in the solvent of choice. AZD 3463 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of AZD 3463 in these solvents is approximately 3.3 and 2.5 mg/ml, respectively.

Description

AZD 3463 is an inhibitor of anaplastic lymphoma kinase (ALK) and the insulin growth factor-1 receptor (IGF-1R).[1] It inhibits ALK with an IC_{50} value of 15 nM.[2] It inhibits the proliferation of neuroblastoma cells with wild-type (WT) ALK (IC_{50}s = 2.8-21.3 µM) and ALK with the activating mutations ALK^{F1174L} and ALK^{D1091N} (IC_{50}s = 1.7 and 16.49 µM, respectively) and induces apoptosis and autophagy.[1] It reduces tumor growth in neuroblastoma mouse xenograft models expressing WT ALK or the ALK^{F1174L} mutation when administered at a dose of 15 mg/kg per day for 21 days.

References

1. Wang, Y., Wang, L., Guan, S., *et al.* Novel ALK inhibitor AZD3463 inhibits neuroblastoma growth by overcoming crizotinib resistance and inducing apoptosis. *Sci. Rep.* **6:19423**, (2016).
2. Aquila, B., Kamhi, V., Peng, B., *et al*. Preparation of substituted pyrimidinamines as ALK kinase inhibitors. *Astrazeneca AB* **US20120028924A1**, (2012).

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