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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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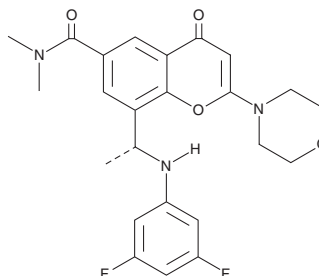
PRODUCT INFORMATION



AZD 8186

Item No. 17384

CAS Registry No.: 1627494-13-6
Formal Name: 8-[(1R)-1-[(3,5-difluorophenyl)amino]ethyl]-N,N-dimethyl-2-(4-morpholinyl)-4-oxo-4H-1-benzopyran-6-carboxamide
MF: C₂₄H₂₅F₂N₃O₄
FW: 457.5
Purity: ≥98%
UV/Vis.: λ_{max}: 219, 242, 311 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

AZD 8186 is supplied as a crystalline solid. A stock solution may be made by dissolving the AZD 8186 in the solvent of choice. AZD 8186 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of AZD 8186 in these solvents is approximately 0.5, 2, and 3 mg/ml, respectively.

AZD 8186 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, AZD 8186 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. AZD 8186 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

AZD 8186 is a selective PI3Kβ/δ inhibitor that exhibits IC₅₀ values of 3, 17, and 752 nM for PI3Kβ, δ, and α, respectively, in cells sensitive to isoform-specific PI3K inhibition.^{1,2} It shows no significant binding against a panel of 442 other kinases when tested at a concentration of 10 μM and exhibits high oral efficacy in mouse cancer models.¹ AZD 8186 inhibits growth of a range of cell lines, with preferential activity in cells with PTEN mutation or deficiency, and inhibits growth of prostate and triple negative breast cancer tumors *in vivo*, both as a single agent and in combination with docetaxel (Item No. 11637).²

References

1. Barlaam, B., Cosulich, S., Degorce, S., *et al.* Discovery of (R)-8-(1-(3,5-difluorophenylamino)ethyl)-N,N-dimethyl-2-morpholino-4-oxo-4H-chromene-6-carboxamide (AZD8186): A potent and selective inhibitor of PI3Kβ and PI3Kδ for the treatment of PTEN-deficient cancers. *J. Med. Chem.* **58**(2), 943-962 (2015).
2. Hancox, U., Cosulich, S., Hanson, L., *et al.* Inhibition of PI3Kβ signaling with AZD8186 inhibits growth of PTEN-deficient breast and prostate tumors alone and in combination with docetaxel. *Mol. Cancer Ther.* **14**(1), 48-58 (2015).

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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