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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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

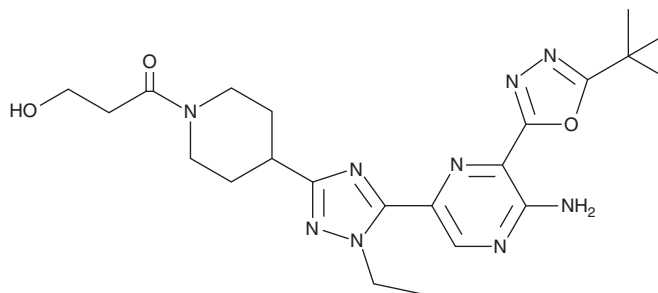
PRODUCT INFORMATION



AZD 8835

Item No. 29166

CAS Registry No.: 1620576-64-8
Formal Name: 1-[4-[5-[5-amino-6-[5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2-yl]-2-pyrazinyl]-1-ethyl-1H-1,2,4-triazol-3-yl]-1-piperidinyl]-3-hydroxy-1-propanone
MF: C₂₂H₃₁N₉O₃
FW: 469.5
Purity: ≥98%
UV/Vis.: λ_{max}: 235, 289, 378 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 8835 is supplied as a crystalline solid. A stock solution may be made by dissolving the AZD 8835 in the solvent of choice, which should be purged with an inert gas. AZD 8835 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of AZD 8835 in ethanol is approximately 2 mg/ml and approximately 16 mg/ml in DMSO and DMF.

AZD 8835 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, AZD 8835 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. AZD 8835 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 8835 is an inhibitor of PI3Kα and PI3Kδ (IC₅₀s = 6.2 and 5.7 nM, respectively).¹ It is selective for PI3Kα and PI3Kδ over PI3Kβ and PI3Kγ (IC₅₀s = 431 and 90 nM, respectively). AZD 8835 inhibits Akt phosphorylation in *PIK3CA* constitutively active mutant BT474 cells and Jeko-1 B cells that express endogenous PI3Kδ (IC₅₀s = 57 and 49 nM, respectively). *In vivo*, AZD 8835 (25 mg/kg) reduces tumor growth and Akt phosphorylation in a SKOV3 mouse xenograft model. It also increases the activity of CD8⁺ effector T cells and reduces tumor growth in a C26 mouse syngeneic tumor model.²

References

1. Barlaam, B., Cosulich, S., Delouvié, B., *et al.* Discovery of 1-(4-(5-(5-amino-6-(5-*tert*-butyl-1,3,4-oxadiazol-2-yl)pyrazin-2-yl)-1-ethyl-1,2,4-triazol-3-yl)piperidin-1-yl)-3-hydroxypropan-1-one (AZD8835): A potent and selective inhibitor of PI3Kα and PI3Kδ for the treatment of cancers. *Bioorg. Med. Chem. Lett.* **25**(22), 5155-5162 (2015).
2. Carnevalli, L.S., Sinclair, C., Taylor, M.A., *et al.* PI3Kα/δ inhibition promotes anti-tumor immunity through direct enhancement of effector CD8⁺ T-cell activity. *J. Immunother. Cancer* **6**(1), 158 (2018).

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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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