

PRODUCT INFORMATION

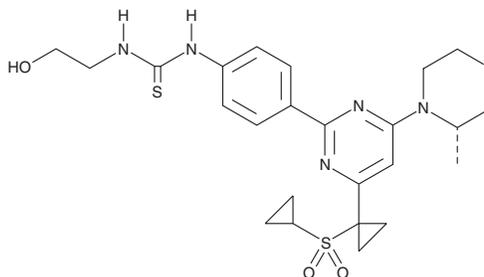


AZD 3147

Item No. 22474

CAS Registry No.: 1101810-02-9
Formal Name: N-[4-[4-[1-(cyclopropylsulfonyl)cyclopropyl]-6-[(3S)-3-methyl-4-morpholinyl]-2-pyrimidinyl]phenyl]-N'-(2-hydroxyethyl)-thiourea

MF: C₂₄H₃₁N₅O₄S₂
FW: 517.7
Purity: ≥95%
UV/Vis.: λ_{max}: 266, 310 nm
Supplied as: A 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 3147 is supplied as a solid. A stock solution may be made by dissolving the AZD 3147 in the solvent of choice, which should be purged with an inert gas. AZD 3147 is soluble in organic solvents such as ethanol, DMSO, and hydrochloric acid. The solubility of AZD 3147 in DMSO and hydrochloric acid is approximately 100 mM and approximately 1 mg/ml in ethanol.

Description

AZD 3147 is an orally bioavailable dual inhibitor of mammalian target of rapamycin complex 1 (mTORC1) and mTORC2 (IC₅₀s = 40.7 and 5.75 nM, respectively, in MDA-MB-468 cells).¹ It is selective for mTOR over PI3Kα, PI3Kβ, PI3Kδ, and PI3Kγ (IC₅₀s = 1.51, 912, 5,495, 9,333, and 6,310 nM, respectively, in enzyme assays).

Reference

1. Pike, K.G., Morris, J., Ruston, L., et al. Discovery of AZD3147: A potent, selective dual inhibitor of mTORC1 and mTORC2. *J. Med. Chem.* **58**(5), 2326-2349 (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.

WARRANTY AND LIMITATION OF REMEDY

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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