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**Product Data Sheet**

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Product Name: AZD 3147

Cat. No.: GC18566

**Chemical Properties**

Cas. No. 1101810-02-9

Chemical Name N-[4-[4-[1-(cyclopropylsulfonyl)cyclopropyl]-6-[(3S)-3-methyl-4-morpholinyl]-2-pyrimidinyl]phenyl]-N'-(2-hydroxyethyl)-thiourea

SMILES S=C(NCCO)NC(C=C1)=CC=C1C2=NC(C3(CC3)S(C4CC4)(=O)=O)=CC(N5CCOC[C@@H]5C)=N2Formula C<sub>24</sub>H<sub>31</sub>N<sub>5</sub>O<sub>4</sub>S<sub>2</sub>

M.Wt 517.7

Solubility 1mg/mL in ethanol, 100mM in DMSO, 100nM in hydrochloride acid

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

AZD 3147 is an orally bioavailable dual inhibitor of mammalian target of rapamycin complex 1 (mTORC1) and mTORC2 (IC<sub>50</sub>s = 40.7 and 5.75 nM, respectively, in MDA-MB-468 cells).[1] It is selective for mTOR over PI3K $\alpha$ , PI3K $\beta$ , PI3K $\delta$ , and PI3K $\gamma$  (IC<sub>50</sub>s = 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).AZD 3147

**Caution: Product has not been fully validated for medical applications. For research use only.**

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