RGNCY-0025 (AZD3147)
Rev 1.0 – May 25, 2015

Systematic Name: \((S)-1-(4-(4-(1-(cyclopropylsulfonyl)cyclopropyl)-6-(3-methylmorpholino)pyrimidin-2-yl)phenyl)-3-(2-hydroxyethyl)thiourea

Pub Med Ref.: 25643210

Molecular Weight: 517.66

Molecular Formula: \(C_{24}H_{31}N_{5}O_{4}S_{2}\)

SMILES: OCCNC(N(C=C1)=CC=C1C2=NC(C3(CC3)S(C4CC4)(=O)=O)=CC(N5[@@H](C)COCC5)=N2)=S

Description

AZD3147 is novel urea containing morpholinopyrimidine compound and is an extremely potent and selective dual inhibitor of mTORC1 (rapamycin sensitive complex) and mTORC2 (rapamycin insensitive complex). It has physicochemical and pharmacokinetic properties suitable for development as a potential clinical candidate. mTOR enzym3 IC\(_{50}\) = 0.0015\(\mu\)M, mTOR cells IC\(_{50}\) = 0.006\(\mu\)M, PI3K\(\alpha,\beta,\delta,\gamma\) enzyme IC\(_{50}\) = 0.92, 5.5, 9.4 and 6.3 \(\mu\)M respectively.
References


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