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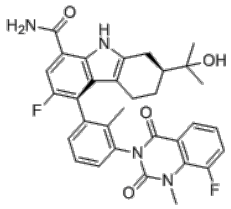
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	BMS-986142
Cat. No.	:	PC-60422
CAS No.	:	1643368-58-4
Molecular Formula	:	$C_{32}H_{30}F_2N_4O_4$
Molecular Weight	:	572.613
Target	:	BTK
Solubility	:	10 mM in DMSO



Biological Activity

BMS-986142 (BMS 986142) is a potent, selective and reversible **BTK** inhibitor with IC50 of 0.5 nM.
BMS-986142 displays 20-60-fold selectivity over Tec family kinases, >10,000-fold selectivity over JAK2.
BMS-986142 potently inhibits signaling and functional end points, including calcium flux (IC50=9 nM), production of cytokines, proliferation, and surface expression of CD86 (IC50=3-4 nM).
BMS-986142 potently inhibits BCR-stimulated expression of CD69 on B cells in human whole blood with IC50 of 90 nM.
BMS-986142 exhibits excellent in vivo properties and efficacy, and a very desirable tolerability and safety profile.

References

Watterson SH, et al. ***J Med Chem.*** 2016 Oct 13;59(19):9173-9200.

Lee SK, et al. ***Eur J Clin Pharmacol.*** 2017 Jun;73(6):689-698.

Gillooly KM, et al. ***PLoS One.*** 2017 Jul 24;12(7):e0181782.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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