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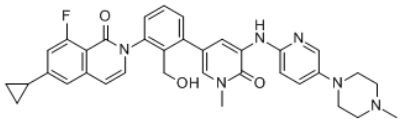
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	RN-486
Cat. No.	:	PC-45403
CAS No.	:	1242156-23-5
Molecular Formula	:	$C_{35}H_{35}FN_6O_3$
Molecular Weight	:	606.6892
Target	:	BTK
Solubility	:	DMSO: 24 mg/mL



Biological Activity

RN-486 is a potent and selective **BTK** inhibitor with IC50 of 4 nM in enzymatic assays.
RN-486 shows high selectivity against a panel of 369 kinases.
RN-486 blocks Fcε receptor cross-linking-induced degranulation in mast cells (IC50=2.9 nM) and Fcγ receptor engagement-mediated TNFα production in monocytes (IC50=7.0 nM).
RN-486 shows robust anti-inflammatory and bone-protective effects in mouse CIA and rat adjuvant-induced arthritis (AIA) models.

References

Xu D, et al. ***J Pharmacol Exp Ther.*** 2012 Apr;341(1):90-103.

Mina-Osorio P, et al. ***Arthritis Rheum***. 2013 Sep;65(9):2380-91.

Lou Y, et al. ***J Med Chem***. 2015 Jan 8;58(1):512-6.

E-mail: tech@probechem.com