



Catalog Number:	MC11117	Product Type:	Small Molecule
Bio-Activity:	mTOR inhibitor	CAS #:	1224844-38-5
Research Categories:	Cell death, cancer	Chemical Name:	3-(2-Amino-5-benzoxazolyl)-1-(1-methylethyl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine
Solubility:	Soluble in DMSO (up to 25 mg/ml)	Molecular Formula:	C ₁₅ H ₁₅ N ₇ O
Purity:	> 98%	Molecular Weight:	309.33
Format:	Powder	Ship Temp:	Ambient
Storage:	-20°C		

Application Notes

Description/Data:

A potent and selective, ATP-competitive inhibitor of mTOR kinase, $K_i = 1.4$ nM [1]. Inhibits growth and proliferation of various breast cancer cell lines and human endothelial cells [2].

References:

- 1) Hsieh et al. (2012), The translational landscape of mTOR signaling steers cancer initiation and metastasis; Nature, 485 55
- 2) Gokmen-Polar et al. (2012) Investigational drug MLN0128, a novel TORC1/2 inhibitor, demonstrates potent oral antitumor activity in human breast cancer xenograft models; Breast Cancer Res. Treat., 136 673

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