BX517

Cat. No.:	HY-13842				
CAS No.:	850717-64-5				
Molecular Formula:	C ₁₅ H ₁₄ N ₄ O ₂				
Molecular Weight:	282.3				
Target:	PDK-1				
Pathway:	PI3K/Akt/mTOR				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		

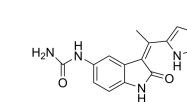
SOLVENT & SOLUBILITY

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	3.5423 mL	17.7117 mL	35.4233 mL	
		5 mM	0.7085 mL	3.5423 mL	7.0847 mL	
		10 mM	0.3542 mL	1.7712 mL	3.5423 mL	
	10 mM 0.3542 mL 1.7712 mL 3.5423 m Please refer to the solubility information to select the appropriate solvent.					

BIOLOGICAL ACTIV	
Description	BX517 is a potent and selective inhibitor of PDK1 with IC ₅₀ of 6 nM.
IC ₅₀ & Target	IC50: 6 nM (PDK1)
In Vitro	BX-517 blocks activation of Akt in tumor cells, is potent with IC ₅₀ of 0.1-1.0 μM ^[1] . BX-517 blocks AKT2 activation in cells with submicromolar potency. BX-517 is 100-fold selective or better against a panel of seven additional Ser/Thr and Tyr kinases ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

Product Data Sheet





• PeerJ. 2020 Oct 2;8:e9981.

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REFERENCES

[1]. Islam I, et al. Indolinone based phosphoinositide-dependent kinase-1 (PDK1) inhibitors. Part 2: optimization of BX-517. Bioorg Med Chem Lett. 2007 Jul 15;17(14):3819-25.

[2]. Islam I, et al. Indolinone based phosphoinositide-dependent kinase-1 (PDK1) inhibitors. Part 1: design, synthesis and biological activity. Bioorg Med Chem Lett. 2007 Jul 15;17(14):3814-8.

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

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