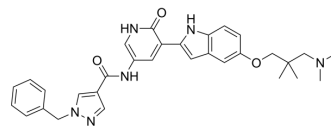


VER-00158411

Cat. No.:	HY-18942
CAS No.:	1174664-88-0
Molecular Formula:	C ₃₁ H ₃₄ N ₆ O ₃
Molecular Weight:	538.64
Target:	Checkpoint Kinase (Chk)
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	VER-00158411 is a checkpoint kinase 1 (CHK1) and CHK2 inhibitor with IC ₅₀ values of 4.4 nM and 4.5 nM, respectively ^[1] .	
IC ₅₀ & Target	Chk1 4.4 nM (IC ₅₀)	Chk2 4.5 nM (IC ₅₀)
In Vitro	<p>Cellular sensing of DNA damage, along with concomitant cell cycle arrest, is mediated by a great many proteins and enzymes. One focus of pharmaceutical development has been the inhibition of DNA damage signaling, and checkpoint kinases (CHKs). There have been a number of clinical trial of checkpoint kinase inhibitors alone or as a combination therapy for example, as a means to sensitize proliferating tumor cells to chemotherapies that damage DNA. The development of checkpoint kinase inhibitors the treatment of cancer was a major objective in drug discovery^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

REFERENCES

[1]. Ann Gee Lisa OOI, et al. Combination therapy. 26 July 2018. WO2018136010A1

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

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