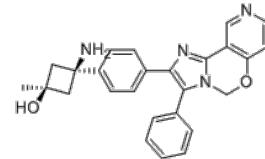

Product Name	:	TAS-117
Cat. No.	:	PC-62833
CAS No.	:	1402602-94-1
Molecular Formula	:	C ₂₆ H ₂₄ N ₄ O ₂
Molecular Weight	:	424.504
Target	:	Akt
Solubility	:	10 mM in DMSO



Biological Activity

TAS-117 (Pifusertib) is a highly selective, oral, allosteric **pan-AKT** inhibitor with IC₅₀ of 4.8/1.6/44 nM for Akt1/Akt2/Akt3 respectively.

TAS-117 (Pifusertib) shows minimal inhibitory activities against others kinases including PI3K, PDK1, and mTOR.

TAS-117 (Pifusertib) inhibits Akt kinase activity but not p-Akt, blocks basal phosphorylation of Akt and downstream p-FKHR/FKHRL1.

TAS-117 (Pifusertib) induces significant cytotoxicity in MM cells associated with inhibition of IL6 secretion.

TAS-117 (Pifusertib) triggers apoptosis and autophagy, induces ER stress response, inhibits human MM cell growth in murine xenograft models.

References

Mimura N, et al. **Cancer Res.** 2014 Aug 15;74(16):4458-69.

Koji Ichikawa, et al. <https://doi.org/10.1158/1535-7163.TARG-13-C177>.

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

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