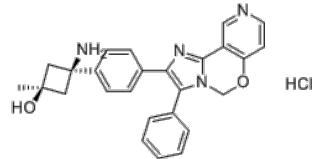

Product Name	: TAS-117 hydrochloride
Cat. No.	: PC-63553
CAS No.	: 2930090-28-9
Molecular Formula	: C ₂₆ H ₂₅ CIN ₄ O ₂
Molecular Weight	: 460.962
Target	: Akt
Solubility	: 10 mM in DMSO



Biological Activity

TAS-117 (Pifusertib) hydrochloride 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.

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

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