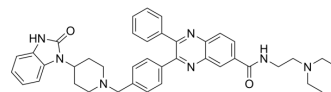


Akt1/Akt2-IN-2

Cat. No.:	HY-129119
CAS No.:	612847-42-4
Molecular Formula:	C ₄₀ H ₄₃ N ₇ O ₂
Molecular Weight:	653.82
Target:	Akt; Caspase
Pathway:	PI3K/Akt/mTOR; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Akt1/Akt2-IN-2 (compound 7) is an allosteric dual Akt1 and Akt2 inhibitor (IC ₅₀ =138 nM and 212 nM, respectively). Akt1/Akt2-IN-2 increases activity of caspase-3, and inhibits viability of a number of tumor cells ^[1] .			
IC₅₀ & Target	Akt1 138 nM (IC ₅₀)	Akt2 212 nM (IC ₅₀)	Akt3 7.2 mM (IC ₅₀)	Caspase-3
In Vitro	Akt1/Akt2-IN-2 (compound 7) has cytotoxicity against LnCaP, HT29, MCF7, and A2780 cells ^[1] . Akt1/Akt2-IN-2 (2 μM, 4 μM) induces caspase-3 activity up to 3 or 6.6 fold increases in LnCaP cells, at 2 μM and 4 μM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Zhao Z, et al. Development of potent, allosteric dual Akt1 and Akt2 inhibitors with improved physical properties and cell activity. *Bioorg Med Chem Lett*. 2008 Jan 1;18(1):49-53.

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

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