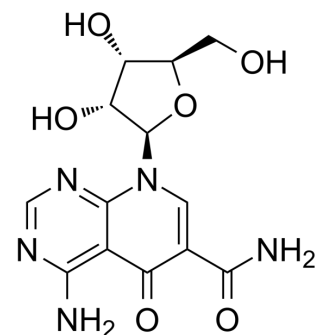


API-1

Cat. No.:	HY-110077
CAS No.:	36707-00-3
Molecular Formula:	C ₁₃ H ₁₅ N ₅ O ₆
Molecular Weight:	337.29
Target:	Apoptosis; Akt
Pathway:	Apoptosis; PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

API-1, a potent Akt/PKB inhibitor, binds to the PH domain and inhibits Akt membrane translocation. API-1 efficiently reduces the phosphorylation levels of Akt with an IC₅₀ of ~0.8 μM. API-1 is selective for PKB and does not inhibit the activation of PKC, and PKA. API-1 also induces apoptosis by synergizing with TNF-related apoptosis-inducing ligand (TRAIL)^{[1][2]}.

REFERENCES

- [1]. Donghwa Kim, et al. A small molecule inhibits Akt through direct binding to Akt and preventing Akt membrane translocation. *J Biol Chem.* 2016 Oct 21;291(43):22856.
- [2]. Donghwa Kim, et al. A small molecule inhibits Akt through direct binding to Akt and preventing Akt membrane translocation. *J Biol Chem.* 2016 Oct 21;291(43):22856.

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

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