

Product Datasheet

AKT Kinase Inhibitor

Catalog No. **BP-02280** · CAS **842148-40-7** · Form **free base** · Physical state **solid** · Color **White to light yellow** · Version **1.0** · Revision **2026-09-04**

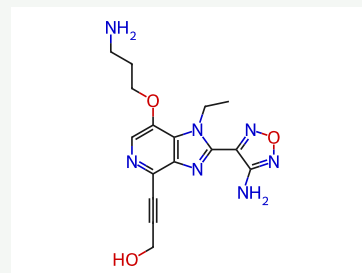
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Target Akt	Research area Cancer
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Molecular formula **C₁₆H₁₉N₇O₃**

Molecular weight **357.3672**

STRUCTURE



DESCRIPTION

AKT Kinase Inhibitor is an Akt kinase inhibitor with anti-tumor activity[1].

BIOLOGICAL ACTIVITY

In Vitro

The effect of selective inhibition of Akt in proliferating cells expressing Trop-2 is studied. Akt inhibition, either by silencing or with specific drugs, induces a marked decrease in cell proliferation in cells expressing Trop-2, in a dose-dependent fashion.

In Vivo

Trop-2 expressing tumors subcutaneously injected in animal models show a striking reduction of growth following treatment with specific drugs that inhibit Akt activity. Therefore Akt has a central functional role in mediating the Trop-2-dependent growth stimulus.

SOLUBILITY

soluble in DMSO

In vitro DMSO : 20 mg/mL

REFERENCES

[1]. Saverio Alberti, et al. Use of trop-2 as predictive marker of response to anti-tumor therapy based on inhibitors of cd9, akt and molecules of the tetraspanin signalling network. WO2013171777A2.

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Lot CoA and SDS are separate documents.