

## STAT3/AKT-IN-1

## Chemical Properties

CAS No. :

Formula: C<sub>23</sub>H<sub>22</sub>O<sub>4</sub>

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	STAT3/AKT-IN-1 is a dual inhibitor of the signal transducer and activator of transcription 3 (STAT3) and protein kinase B (AKT) signaling pathways, demonstrating anti-tumor activity and inducing apoptosis in SGC-7901 cells.
Targets(IC50)	Apoptosis,Akt,STAT
In vitro	STAT3/AKT-IN-1 inhibits the viability of gastric cancer cells SGC-7901 and BGC-823, with IC50 values of 1.39 $\mu$ M and 2.92 $\mu$ M, respectively. At concentrations ranging from 2.5 to 10 $\mu$ M, STAT3/AKT-IN-1 dose-dependently induces G2/M phase cell cycle arrest, suppresses proliferation and migration of SGC-7901 cells, and triggers apoptosis.
In vivo	Administered intravenously at a dose of 15 mg/kg once daily for 20 days, STAT3/AKT-IN-1 demonstrates anticancer activity with no significant toxicity in SGC-7901 xenograft BALB/c mice.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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