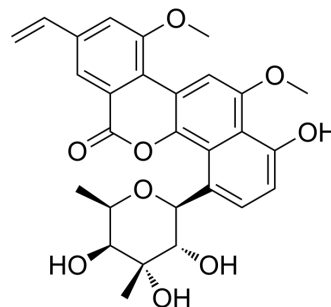


## Chrysomycin A

Cat. No.:	HY-126771
CAS No.:	82196-88-1
Molecular Formula:	C <sub>28</sub> H <sub>28</sub> O <sub>9</sub>
Molecular Weight:	508.52
Target:	Akt; GSK-3; β-catenin; c-Myc; Bacterial; Antibiotic
Pathway:	PI3K/Akt/mTOR; Stem Cell/Wnt; Apoptosis; Anti-infection
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### BIOLOGICAL ACTIVITY

#### Description

Chrysomycin A (Chr-A), an antibiotic, can be obtained from *Streptomyces*. Chrysomycin A exhibits antitumor and anti-tuberculous and MRSA activities. As for glioblastoma, Chrysomycin A inhibits the proliferation, migration, and invasion of cancer cells through the Akt/GSK-3β/β-catenin signaling pathway<sup>[1]</sup>.

#### In Vitro

Chrysomycin A (0.2-1.8 μM; 48 h) has anti-glioblastoma efficacy, and inhibits cell viability in U251 and U87-MG human glioblastoma, as well as migration and invasion<sup>[1]</sup>.

Chrysomycin A (0.2-1.8 μM; 48 h) inhibits Akt/GSK-3β/β-Catenin signaling pathway in U251 and U87-MG cells<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### Cell Viability Assay<sup>[1]</sup>

Cell Line:	U251 and U87-MG human glioblastoma
Concentration:	0.2, 0.4 and 0.8 μM for U251; 0.2, 0.6 and 1.8 μM for U87-MG
Incubation Time:	48 hours
Result:	Inhibited U251 and U87-MG with 0.475 μM and 1.77 μM, respectively.

#### Western Blot Analysis<sup>[1]</sup>

Cell Line:	U251 and U87-MG human glioblastoma
Concentration:	0.2, 0.4 and 0.8 μM for U251; 0.2, 0.6 and 1.8 μM for U87-MG
Incubation Time:	48 hours
Result:	Significantly downregulated the expression of slug and MMP2. Significantly decreased the protein expression of PI3K-p85, p-PI3K-p85, Akt and p-Akt, as well as c-Myc, cyclin D1.

### REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA