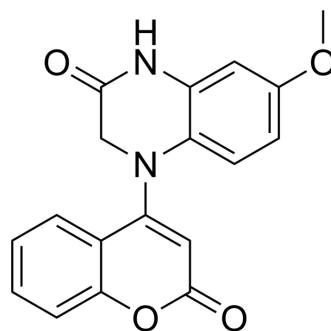


## MY-673

Cat. No.:	HY-149414
CAS No.:	2944459-96-3
Molecular Formula:	C <sub>18</sub> H <sub>14</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	322.31
Target:	Microtubule/Tubulin; Apoptosis; ERK; TGF-beta/Smad
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton; Apoptosis; MAPK/ERK Pathway; Stem Cell/Wnt; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

### Description

MY-673 is a colchicine binding site inhibitor (CBSI), that inhibits tubulin polymerization. MY-673 inhibits the ERK signaling pathway, which in turn affects SMAD4 protein expression levels in the TGF- $\beta$ /SMAD pathway. MY-673 inhibited cell proliferation, migration and induced apoptosis in vivo and in vitro<sup>[1]</sup>.

## REFERENCES

[1]. Song J, et al. Discovery of a novel Coumarin-Dihydroquinoxalone derivative MY-673 as a tubulin polymerization inhibitor capable of inhibiting the ERK pathway with potent anti-gastric cancer activities. *Bioorg Chem.* 2023 Aug;137:106580.

**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