

GC-7

## Chemical Properties

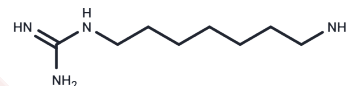
CAS No. : 150333-69-0

Formula: C<sub>8</sub>H<sub>20</sub>N<sub>4</sub>

Molecular Weight: 172.27

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	GC7 Sulfate is an inhibitor of deoxyhypusine synthase (DHPS).
Targets(IC50)	DNA/RNA Synthesis
In vitro	GC7 treatment for 72 hours significantly reduces cell viability of MYCN2 (±Dox) and BE(2)-C cells in a dose-dependent way, with concentrations ranging from 0.1 to 100 μM. In MYCN2 cells, 5 μM of GC7 results in a reduction of cell viability by approximately 40% to 60% compared to untreated controls, while BE(2)-C cells need 25 μM to achieve a 50% decrease. At 10 and 100 μM concentrations, GC7 notably lowers levels of total retinoblastoma (Rb), phosphorylated Rb, and Cdk4 protein while increasing p21 protein levels. GC7 induces minimal cytotoxicity in HCC cells at concentrations between 0 and 20 μM, whereas higher concentrations from 50 to 100 μM considerably reduce the viability of all tested HCC cell lines. After treatment with 20 μM GC7, the synthesis of new 3 H-labeled hypusine of eIF5A1/eIF5A2 is rarely observed, in contrast to untreated cells. Additionally, the incorporation of [3 H]-spermidine into HCC cells is significantly decreased with GC7 concentrations of 20 μM or more.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.8048 mL	29.0242 mL	58.0484 mL
5 mM	1.161 mL	5.8048 mL	11.6097 mL
10 mM	0.5805 mL	2.9024 mL	5.8048 mL
50 mM	0.1161 mL	0.5805 mL	1.161 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E\_mail: [info@targetmol.com](mailto:info@targetmol.com) Address: 34 Washington Street, Wellesley Hills, MA 02481