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**Product Data Sheet**

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Product Name: 4-Formylcolchicine

Cat. No.: GC68549

**Chemical Properties**

Cas. No. 2730-82-7

Formula C<sub>23</sub>H<sub>25</sub>NO<sub>7</sub>

M.Wt 427.45

Solubility DMSO : 160 mg/mL (374.31 mM; Need ultrasonic)

Storage 4°C, away from moisture and light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

4-Formylcolchicine is a potent anticancer agent. 4-Formylcolchicine shows cytotoxicity activity with **IC<sub>50</sub>** values of 1.007, 0.128, 0.054 μM for A549, HT-29, HCT116 cells, respectively<sup>[1]</sup>.

4-Formylcolchicine (compound 7) (0-5 μM; 24 h) shows antiproliferative activity with IC<sub>50</sub>s of 1.007, 0.128, 0.054 μM for A549, HT-29, HCT116 cells, respectively<sup>[1]</sup>.

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

Cell Line: A549, HT-29, HCT116 cells

Concentration: 0-5 μM

Incubation Time: 24 h

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

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Result: Inhibited cell growth with IC<sub>50</sub>s of 1.007, 0.128, 0.054 μM for A549, HT-29, HCT116 cells, respectively.

[1]. Yasobu N, et al. Design, Synthesis, and Antitumor Activity of 4-Halocolchicines and Their Pro-drugs Activated by Cathepsin B. ACS Med Chem Lett. 2011 Mar 4;2(5):348-52.

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