

Product Data Sheet

Product Name: 4-oxo Withaferin A

Cat. No.: GC45352

Chemical Properties

Cas. No. 6850-30-2

SMILES O=C(C=C1)[C@@]2(C)[C@@]([C@H]3C[C@]4([H])[C@]2([H])CC[C@@]5(C)[C@@]4([H])CC[C@]5([H])[C@H](C)[C@@]6([H])CC(C)=C(CO)C(O6)=O)(O3)C1=O

Formula C₂₈H₃₆O₆

M.Wt 468.6

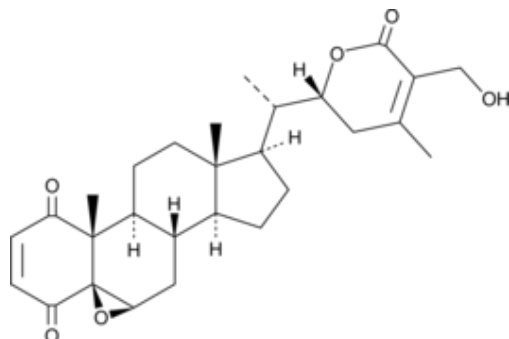
Solubility DMF: 5mg/mL, DMSO:
5mg/mL, DMSO:PBS (pH 7.2) (1:1):
0.5mg/mL

Storage Store at -20°C

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-oxo Withaferin A is a derivative of the steroidal lactone withaferin A that has anticancer activity.¹ It is cytotoxic to A2780 ovarian cancer cells and carboplatin-resistant A2780 (A2780/CP70) cells (IC₅₀s = 7.3 and <1 μM, respectively) and is 4.4-fold selective for A2780 cells over non-cancerous ARPE19 cells.

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

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References

1. Perestelo, N.R., Llanos, G.G., Reyes, C.P., et al. Expanding the chemical space of withaferin A by incorporating silicon to improve its clinical potential on human ovarian carcinoma cells. J. Med. Chem. 62(9), 4571-4585 (2019).

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