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**Product Data Sheet**

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Product Name: 1-Acetyl-3-o-toluyyl-5-fluorouracil (A-OT-Fu)

Cat. No.: GC34189

**Chemical Properties**

Cas. No. 71861-76-2

SMILES O=C1N(C(C2=CC=CC=C2C)=O)C(C(F)=CN1C(C)=O)=OFormula  $C_{14}H_{11}FN_2O_4$  M.Wt 290.25

Solubility Soluble in DMSO 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 **Protocol****Animal experiment:**

Mice: Of the ten groups of tumor bearing mice, subcutaneous administration of 5-fluorouracil or 1-Acetyl-3-o-toluyyl-5-fluorouracil is made at a dose of 0.2, 0.4 and 0.6 mmol/kg/d on six groups in the buttock region. In three groups, oil solution of 1-Acetyl-3-o-toluyyl-5-fluorouracil is administered orally with a stomach tube at a dose of 0.2, 0.4 and 0.6 mmol/kg/d. The remaining group is used as tumor bearing control. During the period of the experiment, body weight is measured every 3 day and the long and short diameters of the tumor are measured daily[1].

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

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### References:

[1]. Yata N, et al. Anti-tumor activity of 1-acetyl-3-o-toluyyl-5-fluorouracil against murine hepatoma MH134 and its effects on tissue weights following subcutaneous and oral administration. J Pharmacobiodyn. 1985 Apr;8(4):264-9.

### Background

1-Acetyl-3-o-toluyyl-5-fluorouracil is a potent an antineoplastic agent.

Oral administration of 1-Acetyl-3-o-toluyyl-5-fluorouracil demonstrates a remarkable effect on MH134 solid tumors, the effect being more marked than that of subcutaneous administration of 1-Acetyl-3-o-toluyyl-5-fluorouracil. Anti-tumor activity of oral administration of 1-Acetyl-3-o-toluyyl-5-fluorouracil at a dose of 0.2 mmol/kg/d is comparable to that of subcutaneous administration of 5-fluorouracil at the same dose. The level of decrease in thymus weight and the magnitude of increase of spleen weight following oral administration of 1-Acetyl-3-o-toluyyl-5-fluorouracil at any dose are smaller than those by subcutaneous administration of 5-fluorouracil (0.2 mmol/kg/d)[1].

[1]. Yata N, et al. Anti-tumor activity of 1-acetyl-3-o-toluyyl-5-fluorouracil against murine hepatoma MH134 and its effects on tissue weights following subcutaneous and oral administration. J Pharmacobiodyn. 1985 Apr;8(4):264-9.

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