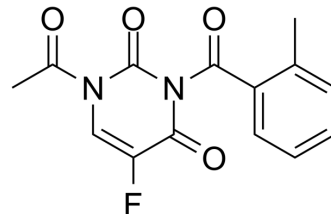


## 1-Acetyl-3-o-toluyyl-5-fluorouracil

<b>Cat. No.:</b>	HY-U00130
<b>CAS No.:</b>	71861-76-2
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>11</sub> FN <sub>2</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	290.25
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	1-Acetyl-3-o-toluyyl-5-fluorouracil is a potent an antineoplastic agent.
<b>In Vivo</b>	<p>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)<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### PROTOCOL

<b>Animal Administration</b> <sup>[1]</sup>	<p>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<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
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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.

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

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