

<b>Product Name</b>	: 5-Fluoroorotic acid
<b>Synonyms</b>	: —
<b>Cat No.</b>	: M22866
<b>CAS Number</b>	: 703-95-7
<b>Molecular Formula</b>	: C <sub>5</sub> H <sub>3</sub> FN <sub>2</sub> O <sub>4</sub>
<b>Formula Weight</b>	: 174.09
<b>Chemical Name</b>	: —
<b>Description</b>	5-Fluoroorotic acid is an inhibitor of thymidylate synthase. 5-Fluoroorotic is a selective agent in yeast molecular genetics. 5-Fluoroorotic possesses a well-expressed anticandidal effect close to that of 5-fluorocytosine, as well as moderate antidermatophytal effects.
<b>Pathway</b>	: Cell Cycle/DNA Damage
<b>Target</b>	: DNA/RNA Synthesis
<b>Receptor</b>	: thymidylate synthase
<b>Solubility</b>	: DMSO: 125 mg/mL (718.02 mM; Need ultrasonic)
<b>SMILES</b>	: <chem>O=C(C(NC1=O)=C(F)C(N1)=O)O</chem>
<b>Storage</b>	: (-20°C)
<b>Stability</b>	: ≥ 2 years
<b>Reference</b>	:

1.P K Rathod , A Khatri, T Hubbert, W K Milhous, et al. Selective activity of 5-fluoroorotic acid against Plasmodium falciparum in vitro. Antimicrob Agents Chemother. 1989 Jul;33(7):1090-4.