

## Product: 5-Fluoroorotic acid monohydrate (5-FOA)

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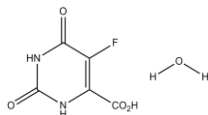
EZSolution™ 5-Fluoroorotic acid (5-FOA) (Cat. No. 2797-10)

**ALTERNATE NAME:** 2,6-Dihydroxy-5-fluoropyrimidine-4-carboxylic acid; 5-Fluorouracil-4-carboxylic acid; 5-Fluorouracil-4-carboxylic acid hydrate

**CATALOG #:** 2796-1G, 5G

**AMOUNT:** 1 g, 5 g

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>5</sub>H<sub>3</sub>FN<sub>2</sub>O<sub>4</sub>·H<sub>2</sub>O

**MOLECULAR WEIGHT:** 192.10

**CAS NUMBER:** 207291-81-4, 220141-70-8

**APPEARANCE:** Off-white to yellow solid

**SOLUBILITY:** DMSO (~100 mg/ml)

**PURITY:** ≥98% by titration

**STORAGE:** Store at -20° C. Protect from air and moisture

**DESCRIPTION:** 5-Fluoroorotic Acid (5-FOA) is used in yeast molecular genetics to detect expression of the *URA3* gene, which encodes orotidine-5'-monophosphate (OMP) decarboxylase. 5-FOA is toxic to yeast cells that can synthesize the enzyme orotidine-5'-phosphate decarboxylase and are therefore unable to grow in 5-FOA-containing media.

**REFERENCES:** Boeke, J.D., *et al.* (1987). *Methods Enzymol.* **154**, 164.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**FOR RESEARCH USE ONLY! Not to be used on humans.**