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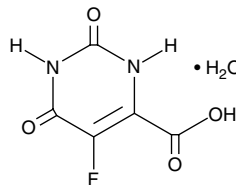
Product Information



5-fluoro Orotic Acid (hydrate)

Item No. 17318

CAS Registry No.: 220141-70-8
Formal Name: 5-fluoro-1,2,3,6-tetrahydro-2,6-dioxo-4-pyrimidinecarboxylic acid, monohydrate
Synonyms: 5-FOA, 5-fluoro OA
MF: $C_5H_3FN_2O_4 \cdot H_2O$
FW: 192.1
Purity: $\geq 95\%$
Stability: ≥ 2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max} : 288 nm



Laboratory Procedures

For long term storage, we suggest that 5-fluoro orotic acid (5-FOA) (hydrate) be stored as supplied at -20°C . It should be stable for at least two years.

5-FOA (hydrate) is supplied as a crystalline solid. A stock solution may be made by dissolving the 5-FOA (hydrate) in the solvent of choice. 5-FOA (hydrate) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of 5-FOA (hydrate) in these solvents is approximately 10 and 5 mg/ml, respectively.

5-FOA (hydrate) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 5-FOA (hydrate) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. 5-FOA (hydrate) has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

5-FOA is used to detect *URA3* gene expression in yeast molecular genetic constructs.¹ Yeast with an active *URA3* gene, which encodes orotidine-5'-monophosphate decarboxylase, converts 5-FOA to fluorodeoxyuridine, which is toxic to cells. Resistant strains of yeast that carry a mutation in the *URA3* gene grow in the presence of 5-FOA if the media is supplemented with uracil.

Reference

1. Winston, F., Chaleff, D.T., Valent, B., *et al.* Mutations affecting Ty-mediated expression of the *HIS4* gene of *Saccharomyces cerevisiae*. *Genetics* **107**(2), 179-197 (1984).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/17318

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