

| | |
|-----------------------------|---|
| Product Name: | 5-Fluorouracil |
| Product Number: | F034 |
| CAS Number: | 51-21-8 |
| Molecular Formula: | $C_4H_3FN_2O_2$ |
| Molecular Weight: | 130.08 |
| Description: | <p>5-Fluorouracil is a growth inhibitor. The metabolites of 5-fluorouracil use multiple targets to slow DNA and RNA processing and therefore cell growth. It was initially found to inhibit plant cell growth. However, it was later found to inhibit human cell growth and is now used to both treat pre-cancerous skin lesions and as a chemotherapy drug for a wide array of cancers.</p> <p>5-Fluorouracil is sparingly soluble in water, and slightly soluble in alcohol.</p> <p>This product is considered a dangerous good. Quantities above 1 g may be subject to additional shipping fees. Please contact us for specific questions.</p> |
| Mechanism of Action: | <p><i>In vivo</i> 5-Fluorouracil is converted into active metabolites that target multiple parts of DNA and RNA synthesis including replacement of uracil and depletion of thymidine triphosphate (TTP)</p> |
| References: | <p>Bayomi, S. M., & Al-Badr, A. A. (1990). Analytical Profile of 5-Fluorouracil. <i>Analytical Profiles of Drug Substances</i>, 599-639. doi:10.1016/s0099-5428(08)60682-6</p> |