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Product Datasheet

5-Fluorouracil, CAS [[51-21-8]] FBM-10-1276

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| Article Name | 5-Fluorouracil, CAS [[51-21-8]] |
| Biozol Catalog Number | FBM-10-1276 |
| Supplier Catalog Number | 10-1276 |
| Alternative Catalog Number | FBM-10-1276-250MG, FBM-10-1276-1G |
| Manufacturer | Focus Biomolecules |
| Category | Biochemikalien |
| Product Description | Thymidylate synthase inhibitor... |
| Molecular Weight | 130.08 |
| Purity | 98% |
| Form | White solid |
| CAS Number | [51-21-8] |
| Formula | C ₄ H ₃ FN ₂ O ₂ |
| Application Notes | 5-Fluorouracil (5-FU) is a clinically useful anticancer agent that acts via irreversible inhibition of thymidylate synthase. The active metabolites of 5-FU are 5-Fluorodeoxyuridylate (5-FdUMP), 5-Fluorodeoxyuridine triphosphate (5-FdUTP) and 5-Fluorouridine triphosphate (5-FUTP). The primary cytotoxic effect of 5-FU is believed to be inhibition of thymidylate synthase by 5-FdUMP. Secondary effects include incorporation of 5-FdUTP into DNA resulting in DNA strand breaks and incorporation of 5-FUTP into RNA causing abnormal RNA processing. ¹ |