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## Product Datasheet

### 5-Fluorouracil, CAS [[51-21-8]]

### FBM-10-1276

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	C4H3FN2O2
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. <sup>1</sup>