

Tegafur

Catalog No: tcsc1128



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

17902-23-7

Formula:

$C_8H_9FN_2O_3$

Pathway:

Cell Cycle/DNA Damage

Target:

Nucleoside Antimetabolite/Analog

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 48 mg/mL (239.80 mM)

Alternative Names:

FT 207 NSC 148958

Observed Molecular Weight:

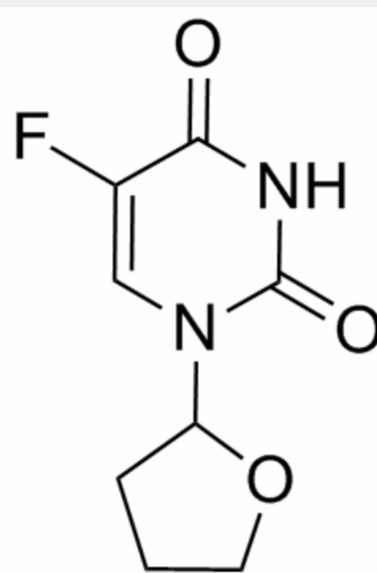
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Product Description

Tegafur (FT 207; NSC 148958) is a chemotherapeutic 5-FU prodrug used in the treatment of cancers; is a component of tegafur-uracil.

IC50 & Target: Nucleoside antimetabolite/analog

In Vitro: Tegafur is bioactivated to 5-FU by liver microsomal cytochrome P450 enzymes. 5-FU is subsequently converted into its active metabolites 5-fluoro-deoxyuridine-monophosphate (FdUMP) and 5-fluorouridine-triphosphate (FUTP) intracellularly; these metabolites inhibit the enzyme thymidylate synthase and intercalate into RNA, resulting in decreased thymidine synthesis, reduced DNA synthesis, disrupted RNA function, and tumor cell cytotoxicity.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!