
Catalog	Unit
TBI1283-50MG	50 mg
TBI1283-250MG	250 mg

Product Details

Formal Name: 2'-Deoxy-5-trifluoromethyluridine

Alternate Names: α,α,α -Trifluorothymidine; Trifluorothymine deoxyriboside; Trifluridine; TFT

Molecular Formula: C₁₀H₁₁F₃N₂O₅

Formula Weight: 296.20

CAS Number: 70-00-8

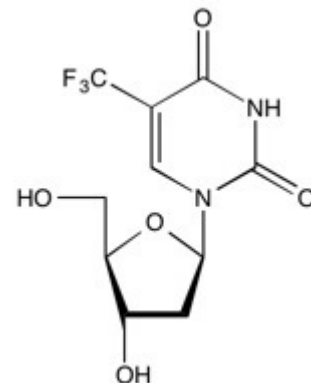
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 25 mg/ml) or in Water (up to 14 mg/ml)

Storage: -20°C

Stability: \geq 1 year.



Applications

Thymidylate synthase inhibitor; Anti cancer agent

Functions

An analog of thymidine which inhibits thymidylate synthase possesses antiviral and anticancer activity. After phosphorylation by thymidine kinase, it is incorporated into DNA where it induces DNA-damage and interferes with repair enzymes. Enhances frame shift insertion and deletion in CRISPR genome editing in pluripotent stem cells.

Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Water (up to 14 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or distilled water may be stored at -20°C for up to 1 month.

For research use only.