

# Gimeracil

**Catalog No: tcsc1822**



## Available Sizes

**Size:** 25mg

**Size:** 50mg

**Size:** 100mg

**Size:** 500mg

**Size:** 5g

**Size:** 10g

**Size:** 25g

**Size:** 100g



## Specifications

**CAS No:**

103766-25-2

**Formula:**

$\text{C}_5\text{H}_4\text{ClNO}_2$

**Pathway:**

Others

**Target:**

Others

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 29 mg/mL (199.26 mM; Need ultrasonic and warming)

**Alternative Names:**

Gimestat

**Observed Molecular Weight:**

145.54

**Product Description**

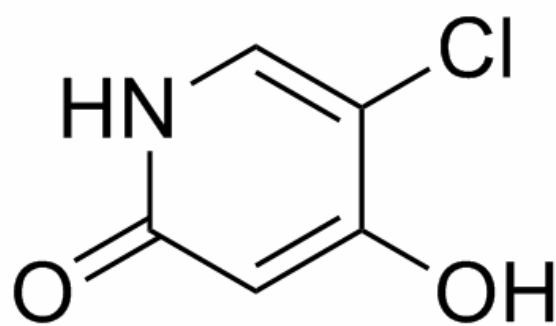
Gimeracil(Gimestat) is an inhibitor of dihydropyrimidine dehydrogenase (DPYD), which degrades pyrimidine including 5-fluorouracil in the blood; inhibits homologous recombination.

IC50 Value:

Target: DPYD

in vitro: Gimeracil had radiosensitizing effects by partially inhibiting homologous recombination (HR) in the repair of DNA double strand breaks. Tail moments in neutral comet assay increased in gimeracil-treated cells. Gimeracil restrained the formation of foci of Rad51 and replication protein A (RPA), whereas it increased the number of foci of Nbs1, Mre11, Rad50, and FancD2. Gimeracil did not sensitize DPYD-depleted cells [1]. Gimeracil inhibited DNA DSB repair. It did not sensitize cells deficient in HR but sensitized those deficient in NHEJ. In SCneo assay, Gimeracil reduced the frequency of neo-positive clones. Additionally, it sensitized the cells in S-phase more than in G0/G1 [2].

in vivo:



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