Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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:
$C_5H_4ClNO_2$

Pathway:
Others

Target:
Others

Purity / Grade:
>98%

Solubility:

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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: