

Product Data Sheet

Product Name: SL 01
Cat. No.: GC44897

Chemical Properties

Cas. No. 26049-94-5

SMILES O=C(CCl)[C@@H](NC(OCC1=CC=CC=C1)=O)CC2=CC=CC=C2

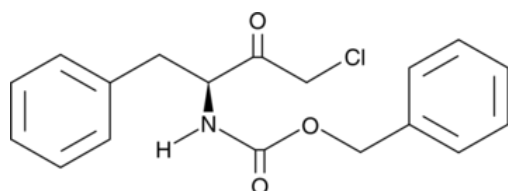
Formula C₁₈H₁₈ClNO₃ M.Wt 331.8

Solubility DMF: 33 mg/ml, DMSO: 33 mg/ml, DMSO: PBS (pH 7.2) (1:3): 0.25 mg/ml, Ethanol: 2 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

SL 01 is a prodrug of gemcitabine, the nucleoside analog used intravenously to treat various cancers that was designed for improved oral bioavailability. SL 01 can inhibit the growth of human non-small cell lung cancer NCI-H460 cells, colon cancer HCT116 cells, and breast cancer MCF-7 cells (IC₅₀s = 0.78, 0.92, and 0.64 μM, respectively), inducing apoptosis. In nude mice bearing NCI-H460, HCT116, or MCF-7 cancer cell xenografts, SL 01 at 10-50 μM/kg has been shown to delay tumor growth.

Caution: Product has not been fully validated for medical applications. For research use only.

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