

GSTO1-IN-1

Catalog No: **tcsc0042397**



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

568544-03-6

Formula:

$C_{10}H_{12}Cl_2N_2O_3S$

Pathway:

Metabolic Enzyme/Protease

Target:

Gutathione S-transferase

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 300 mg/mL (964.07 mM)

Observed Molecular Weight:

311.18

Product Description

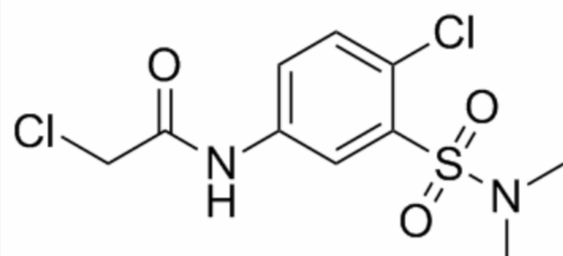
GSTO1-IN-1 is a potent **glutathione S-transferase omega 1 (GSTO1)** inhibitor with an **IC₅₀** of 31 nM.

IC50 & Target: IC50: 31 nM (GSTO1)^[1]

In Vitro:

GSTO1-IN-1 (C1-27) potently inhibits GSTO1 enzyme activity with an IC_{50} value of 31 nM. GSTO1-IN-1 also potently competes with 5-chloromethylfluorescein diacetate (CMFDA) for binding to recombinant protein, as well as endogenous GSTO1 in the milieu of a soluble proteome. HCT116 cells treated with GSTO1-IN-1 also show a decrease in cell viability in a dose-dependent manner. GSTO1-IN-1 inhibits the clonogenic survival of HCT116 cells at sub-micromolar concentrations^[1].

In Vivo: To test whether GSTO1-IN-1 had in vivo efficacy, its effects are evaluated in a human colon cancer cell line xenograft model. GSTO1-IN-1 (20-45 mg/kg) is administered as a single agent to nude mice bearing HCT116 xenografts. After 5 weeks of treatment, tumor growth is significantly inhibited in GSTO1-IN-1-treated mice compared with the vehicle-treated group (P[1]).



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