

# 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 :  $\geq 300$  mg/mL (964.07 mM)

**Observed Molecular Weight:**

311.18

## Product Description

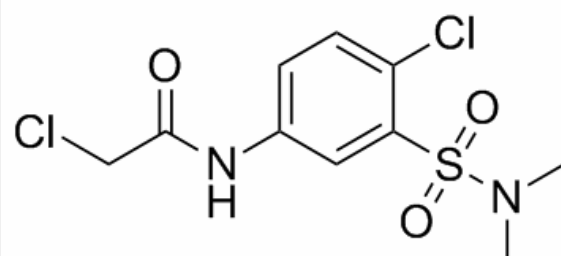
GSTO1-IN-1 is a potent **glutathione S-transferase omega 1 (GSTO1)** inhibitor with an **IC<sub>50</sub>** of 31 nM.

IC50 & Target: IC50: 31 nM (GSTO1)<sup>[1]</sup>

***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<sup>[1]</sup>.

***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!