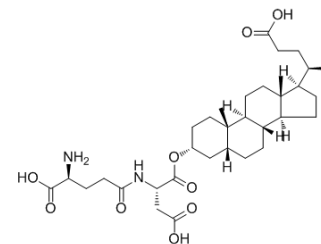


GSTO-IN-2

Cat. No.:	HY-112534		
CAS No.:	1202710-57-3		
Molecular Formula:	C ₃₃ H ₅₂ N ₂ O ₉		
Molecular Weight:	620.77		
Target:	Gutathione S-transferase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (161.09 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.6109 mL	8.0545 mL	16.1090 mL
		5 mM	0.3222 mL	1.6109 mL	3.2218 mL
10 mM		0.1611 mL	0.8055 mL	1.6109 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.03 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.03 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	GSTO-IN-2 is a glutathione S-transferase inhibitor with IC ₅₀ s of 3.6, 16.3, and 1.4 μM for GSTA2, GSTM1, and GSTP1-1.
IC₅₀ & Target	IC ₅₀ : 3.6 μM (GSTA2), 16.3 μM (GSTM1), 1.4 μM (GSTP1-1) ^[1]
In Vitro	<p>GSTO-IN-2 is compound 3 in the reference. GSTO-IN-2 shows synergetic effect with chemotherapy drugs against two breast cancer cell lines through the inactivation of GST isozymes. The maximal enhancement of cisplatin-induced inhibition of cell viability is observed at 50 μM GSTO-IN-2, up to 640% against MCF-7 and up to 270% against MDA-MB-231. Viability inhibition of thiotepa is enhanced by GSTO-IN-2 (25 and 50 μM), up to 170-320% against MCF-7 and up to 180-270% against MDA-MB-231.^[1]</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Chang KH, et al. Lithocholic acid analogues, new and potent alpha-2,3-sialyltransferase inhibitors. Chem Commun (Camb). 2006 Feb 14;(6):629-31.

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

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