

Product Data Sheet

Product Name: GSTO-IN-2

Cat. No.: GC33342

Chemical Properties

Cas. No. 1202710-57-3

SMILES C[C@@]1(-;@[C@@]2([H])[C@H](C)CCC(O)=O)-;@[C@](-;@C-;@C-;@2)([H])-;@[C@@](-;@C-;@C-;@[C@@]3([H])-;@[C@@]-;@4(-;@C-;@C-;@[C@@H](OC([C@@H](NC(CC[C@@H](C(O)=O)N)=O)CC(O)=O)=O)-;@C-;@3C)([H])-;@[C@]4([H])-;@C-;@C-;@1

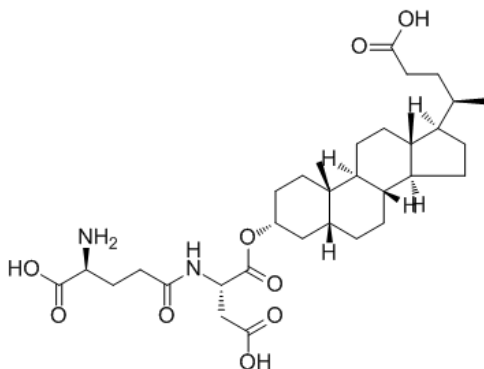
Formula $C_{33}H_{52}N_2O_9$ M.Wt 620.77

Solubility Soluble in DMSO Storage Store at -20°C

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

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

Structure



Background

GSTO-IN-2 is a glutathione S-transferase inhibitor with IC₅₀s of 3.6, 16.3, and 1.4 μM for GSTA2, GSTM1, and GSTP1-1.

GSTO-IN-2 is compound 3 in the reference. GSTO-IN-2 shows synergetic effect with chemotherapy

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

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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 μ M 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 μ M), up to 170-320% against MCF-7 and up to 180-270% against MDA-MB-231.[1].

[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.

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