

Product Data Sheet

Product Name: GOT1 inhibitor-1

Cat. No.: GC60884

Chemical Properties

Cas. No. 732973-87-4

SMILES O=C(N1CCN(C2=CC=CC3=C2C=CN3)CC1)NC4=CC=C(Cl)C=C4

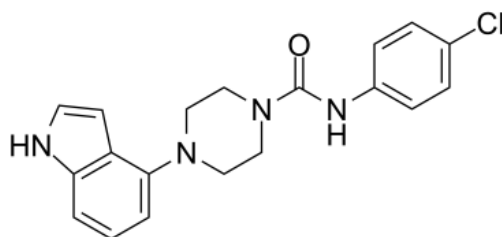
Formula $C_{19}H_{19}ClN_4O$ M.Wt 354.83

Solubility DMSO: 125 mg/mL (352.28 mM); Storage Store at -20°C
Water: < 0.1 mg/mL (insoluble)

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

GOT1 inhibitor-1 is a small-molecule selective inhibitor of GOT1 (glutamic oxaloacetic transaminase 1) with an IC_{50} of 8.2 μ M. GOT1 inhibitor-1 has potential application value in cancer therapy [1].

GOT1 is a key protein in energy metabolism and the balance of reactive oxygen species (ROS) [2]. GOT1 inhibitor-1, which is N-(4-chlorophenyl)-4-(1H-indol-4-yl)piperazine-1-carboxamide, can reduce the viability of cancer cells by inhibiting the activity of GOT1 and disrupting the metabolic pathway.

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

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balance^[1].

References:

- [1] Anglin J, Zavareh RB, Sander PN, et al. Discovery and optimization of aspartate aminotransferase 1 inhibitors to target redox balance in pancreatic ductal adenocarcinoma. *Bioorg Med Chem Lett*. 2018 Sep 1;28(16):2675-2678.
- [2] Peng H, Dou H, He S, et al. The role of GOT1 in cancer metabolism. *Front Oncol*. 2024 Dec 24;14:1519046.

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