

Product Data Sheet

Product Name: GLS1 Inhibitor

Cat. No.: GC47405

Chemical Properties

Cas. No. 1832646-52-2

SMILES CO[C@H](C(NC1=NN=C(N[C@@H]2CCN(C3=CC=CN=N3)C2)S1)=O)C4=CC=CC=C4

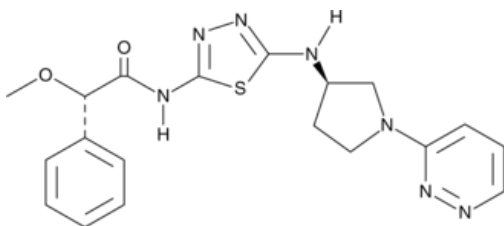
Formula C₁₉H₂₁N₇O₂S M.Wt 411.5

Solubility DMF: 20 mg/ml, DMSO: 20 mg/ml, DMSO:PBS (pH 7.2) (1:3): 0.25 mg/ml
Storage Store at -20°C

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

GLS1 inhibitor is an inhibitor of glutaminase 1 (GLS1; IC₅₀ = 0.021 μM).¹ It inhibits the growth of NCI H1703 non-small cell lung cancer (NSCLC) cells *in vitro* (GI₅₀ = 0.011 μM). GLS1 inhibitor (100 mg/kg) reduces tumor growth, increases tumor levels of glutamine, and decreases tumor levels of glutamate and aspartate in an NCI H1703 mouse xenograft model.

1. Finlay, M.R.V., Anderton, M., Bailey, A., et al. Discovery of a thiadiazole-pyridazine-based allosteric glutaminase 1 inhibitor series that demonstrates oral bioavailability and activity in tumor xenograft models. *J. Med. Chem.* 62(14):6540-6560 (2019)

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

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