

Product Data Sheet

Product Name: Sec61-IN-1

Cat. No.: GC64840

Chemical Properties

Cas. No. 2484865-42-9

Formula C₂₃H₂₂N₆OS

M.Wt 430.53

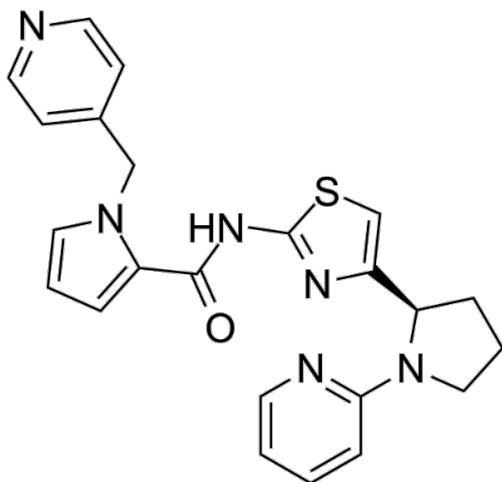
Solubility

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



Protocol

Cell experiment [1]:

Cell lines NCI-H929 cell

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Preparation Method NCI-H929 cells were resuspended in RPMI 1640 media supplemented with 10% fetal bovine serum, 2mM Glutamine, and 1x Penicillin/Streptomycin and plated in 384-well tissue culture plates and treated with Sec61-IN-1 dilutions in DMSO/media. Plates were incubated at 37°C, 5% CO₂ for 48 hours. After 48 hours, Celltiter-Glo was added to each well and luciferase signal was quantified for cell viability determination.

Reaction
Conditions 48h

Applications EC₅₀=2543nM

References:

[1]National Center for Biotechnology Information (2025). PubChem Patent Summary for WO-2020176863-A1, Thiazole derivatives as protein secretion inhibitors. Retrieved March 1, 2025 from <https://pubchem.ncbi.nlm.nih.gov/patent/WO-2020176863-A1>.

Background

Sec61-IN-1 is an effective Sec61 inhibitor (Patent WO2020176863A1, compound A317).^[1]

Sec61-IN-1 exhibits an EC₅₀ of 2543nM after 48-hour treatment on NCI-H929 cells^[1].

References:

[1]National Center for Biotechnology Information (2025). PubChem Patent Summary for WO-2020176863-A1, Thiazole derivatives as protein secretion inhibitors. Retrieved March 1, 2025 from <https://pubchem.ncbi.nlm.nih.gov/patent/WO-2020176863-A1>.

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