

Product Data Sheet

Product Name: Creatine transporter-IN-1

Cat. No.: GC81442

Chemical Properties

Cas. No. 1706435-74-6

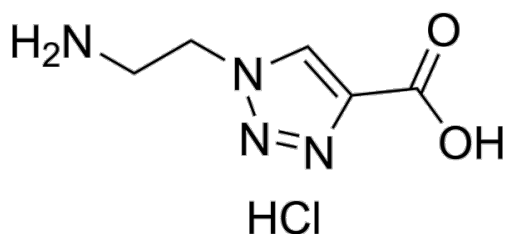
Formula $C_5H_9ClN_4O_2$ M.Wt 192.6

Solubility DMSO: 4.17 mg/mL (21.65 mM); ultrasonic and warming and heat to 60°C) 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

Creatine transporter-IN-1 is a synthetic creatine transporter (CT1/SLC6A8) inhibitor. Creatine transporter-IN-1 inhibits creatine uptake and shows anticancer activity against cancer cells [1].

In Vitro, Creatine transporter-IN-1 (Compound 4) (500 μM) weakly inhibits creatine uptake in CT1-expressing HEK293 cells [1]. Creatine transporter-IN-1 (0.1-100 μM; 24-48 h) reduces the viability of

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

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DLD-1 human colorectal adenocarcinoma cells in a concentration-dependent manner^[1]. Creatine transporter-IN-1 (0.1-100 μ M; 24-72 h) reduces the viability of HT-29 human colorectal adenocarcinoma cells in a concentration-dependent manner^[1]. Creatine transporter-IN-1 (0.1-1 mM; 48 h) reduces the viability of MDA-MB-231 human breast adenocarcinoma cells in a concentration-dependent manner at millimolar concentrations^[1].

References:

[1]. Stary, Dorota, et al. Structure-Based Search for Novel Creatine Transporter Inhibitors. ACS Medicinal Chemistry Letters (2026).

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