

Product Data Sheet

Product Name: (Z)-4EGI-1

Cat. No.: GC39842

Chemical Properties

Cas. No. 901787-88-0

SMILES O=C(O)/C(CC1=CC=CC=C1[N+])([O-])=O=N/NC2=NC(C3=CC=C(Cl)C(Cl)=C3)=CS2.[(Z)]

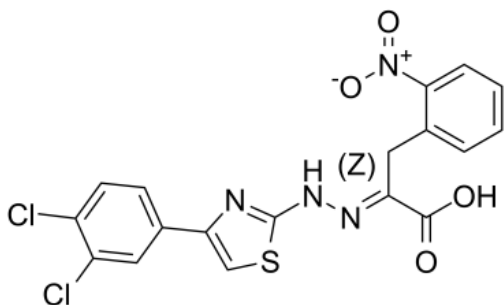
Formula $C_{18}H_{12}Cl_2N_4O_4S$ M.Wt 451.28

Solubility DMSO: 50 mg/mL (110.80 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

(Z)-4EGI-1 is the Z-isomer of 4EGI-1 and is an inhibitor of eIF4E/eIF4G interaction and of translation initiation. (Z)-4EGI-1 effectively binds to eIF4E with an IC₅₀ of 43.5 μM and a K_d value of 8.74 μM. (Z)-4EGI-1 has anticancer activity[1][2].

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

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[1]. Khuloud Takroui, et al. Structure-activity Relationship Study of 4EGI-1, Small Molecule eIF4E/eIF4G Protein-Protein Interaction Inhibitors. Eur J Med Chem. 2014 Apr 22;77:361-77. [2]. Poornachandran Mahalingam, et al. Synthesis of Rigidified eIF4E/eIF4G inhibitor-1 (4EGI-1) Mimetic and Their in Vitro Characterization as Inhibitors of Protein-Protein Interaction. J Med Chem. 2014 Jun 26;57(12):5094-111.

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