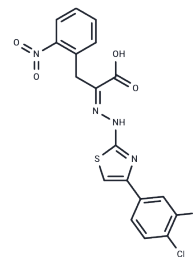


(Z)-4EGI-1

Chemical Properties

CAS No. :	901787-88-0
Formula:	C ₁₈ H ₁₂ Cl ₂ N ₄ O ₄ S
Molecular Weight:	451.28
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	(Z)-4EGI-1, the Z-isomer of 4EGI-1, serves as an inhibitor of both the eIF4E/eIF4G interaction and translation initiation. It effectively binds to eIF4E, exhibiting an IC ₅₀ of 43.5 μM and a K _d value of 8.74 μM. Notably, (Z)-4EGI-1 possesses anticancer activity[1] [2].
Targets(IC ₅₀)	Others,PERK

Solubility Information

Solubility	DMSO: 50 mg/mL (110.8 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2.5 mg/mL (5.54 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2159 mL	11.0796 mL	22.1592 mL
5 mM	0.4432 mL	2.2159 mL	4.4318 mL
10 mM	0.2216 mL	1.108 mL	2.2159 mL
50 mM	0.0443 mL	0.2216 mL	0.4432 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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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