(Z)-4EGI-1

Cat. No.:	HY-19831A		
CAS No.:	901787-88-	0	
Molecular Formula:	C ₁₈ H ₁₂ Cl ₂ N ₄	O ₄ S	
Molecular Weight:	451.28		
Target:	Eukaryotic	Initiation	Factor (eIF)
Pathway:	Cell Cycle/I	DNA Dam	age
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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	Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	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	1.1080 mL	2.2159 mL
ease refer to the sol	ubility information to select the app	propriate solvent.		
	reparing tock Solutions lease refer to the sol	reparing tock Solutions	reparing tock Solutions 1 mM 2.2159 mL 5 mM 0.4432 mL 10 mM 0.2216 mL lease refer to the solubility information to select the appropriate solvent.	reparing tock Solutions 1 mM 2.2159 mL 11.0796 mL 5 mM 0.4432 mL 2.2159 mL 10 mM 0.2216 mL 1.1080 mL lease refer to the solubility information to select the appropriate solvent.

Description (Z)-4EGI-1 is the Z-isomer of 4EGI-1 and is an inhibitor of eIF4E/eIF4G interaction and of translation i effectively binds to eIF4E with an IC ₅₀ of 43.5 μ M and a K _d value of 8.74 μ M. (Z)-4EGI-1 has anticance	initiation. (Z)-4EGI-1 er activity ^{[1][2]} .
IC ₅₀ & Target eIF4	
 (Z)-4EGI-1 (15-30 μM; 6 hours; CRL-2813 melanoma cells) treatment markedly reduces the expression proteins: cyclin D1, cyclin E, and Survivin, while the expressions of housekeeping proteins such as β not affected^[1]. (Z)-4EGI-1 inhibits cancer cells proliferation with IC₅₀ values of 15.3 μM and 11.6 μM for CRL-2351 brimelanoma cells, respectively^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis^[1] 	ons of the regulatory 3-Actin and α-Tubulin are reast cells and CRL-2813

Product Data Sheet

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Cell Line:	CRL-2813 melanoma cells
Concentration:	15 μΜ, 30 μΜ
Incubation Time:	6 hours
Result:	Markedly reduced the expressions of the regulatory proteins: cyclin D1, cyclin E, and

REFERENCES

[1]. Khuloud Takrouri, 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.

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

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