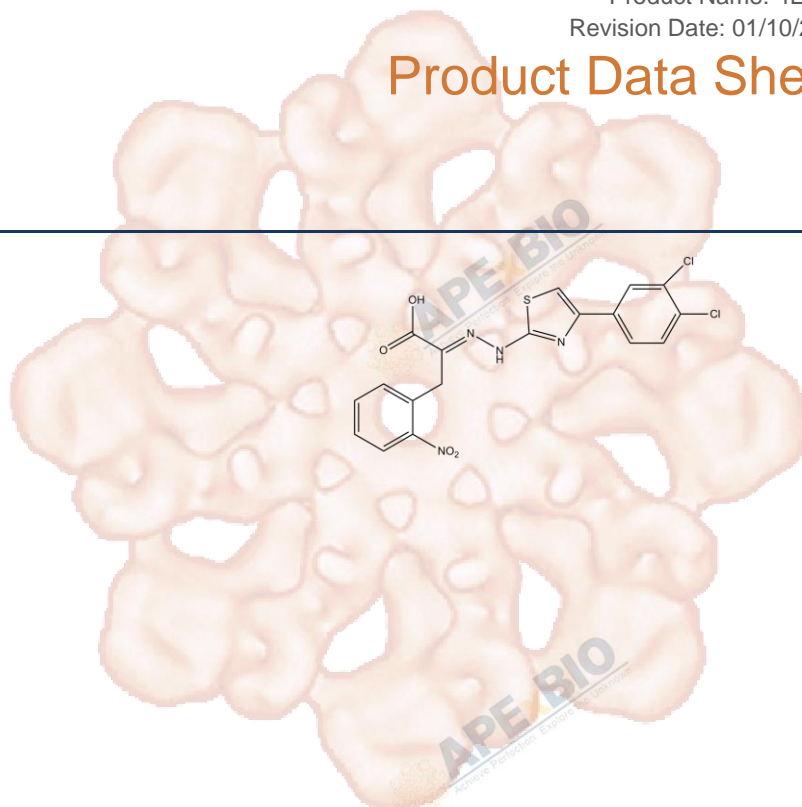


# Product Data Sheet

## 4EGI-1

<b>Cat. No.:</b>	B3696
<b>CAS No.:</b>	315706-13-9
<b>Formula:</b>	C <sub>18</sub> H <sub>12</sub> Cl <sub>2</sub> N <sub>4</sub> O <sub>4</sub> S
<b>M.Wt:</b>	451.28
<b>Synonyms:</b>	
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥22.56 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		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	1.1080 mL	2.2159 mL

Please refer to the solubility information to select the appropriate solvent.

### Biological Activity

Shortsummary

Competitive eIF4E/eIF4G interaction inhibitor

IC<sub>50</sub> & Target

25 μM (KD) (eIF4E/eIF4G)

In Vitro

#### Cell Viability Assay

Cell Line:	Jurkat cells
Preparation method:	The solubility of this compound in DMSO is > 22.6 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.
Reacting conditions:	0 ~ 200 μM; 24 hrs

	Applications:	In Jurkat cells, 4EGI-1 (> 50 $\mu$ M) treatment induced cell death after 24 hrs. In addition, 4EGI-1 significantly increased subG1 DNA content, which was inhibited by cotreatment with the caspase inhibitor zVAD-FMK.
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

1. Haimov O, Sehrawat U, et al. "Dynamic interactions of eIF4G1 with eIF4E and eIF1 underlie scanning dependent and independent translation." Mol Cell Biol. 2018 Jul 9. pii: MCB.00139-18. PMID:29987188
2. Lee YC, Wang LJ, et al. "ABT-263-induced MCL1 upregulation depends on autophagy-mediated 4EBP1 downregulation in human leukemia cells." Cancer Lett. 2018 Jun 15;432:191-204. PMID:29913235

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## References

- [1]. Moerke N J, Aktas H, Chen H, et al. Small-molecule inhibition of the interaction between the translation initiation factors eIF4E and eIF4G. Cell, 2007, 128(2): 257-267.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

*Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.*

**APExBIO Technology**

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