## AEG3482

Cat. No.:	HY-107599		
CAS No.:	63735-71-7		
Molecular Formula:	C <sub>10</sub> H <sub>8</sub> N <sub>4</sub> O <sub>2</sub> S	2	
Molecular Weight:	280.33		
Target:	JNK; Apopt	osis	
Pathway:	MAPK/ERK	Pathway	; Apoptosis
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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## SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (891.81 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	3.5672 mL	17.8361 mL	35.6722 mL	
		5 mM	0.7134 mL	3.5672 mL	7.1344 mL	
		10 mM	0.3567 mL	1.7836 mL	3.5672 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.08 mg/mL (7.42 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (7.42 mM); Clear solution</li> </ol>					

BIOLOGICALINGIN	
Description	AEG3482 is a potent antiapoptotic compound that inhibits Jun kinase (JNK) activity through induced expression of heat shock protein 70 (HSP70). AEG3482 directly binds HSP90, thereby facilitating HSF1-dependent expression of HSP70 and HSP25 <sup>[1]</sup> .
IC <sub>50</sub> & Target	JNK <sup>[1]</sup>
In Vitro	AEG3482 (0.3-30 μM; 2 d) inhibits nerve growth factor (NGF) withdrawal-induced death in SCG neurons, with an EC <sub>50</sub> of -20 μ M <sup>[1]</sup> . AEG3482 (1-80 μM; 40 h) inhibits p75NTR- and NRAGE- mediated apoptosis of PC12 cells in a dose-dependent manner <sup>[1]</sup> . AEG3482 (10-40 μM; 30 h) inhibits p75NTR- and NRAGE-mediated JNK activation in PC12 cells <sup>[1]</sup> .

## Product Data Sheet

MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Apoptosis Analysis <sup>[1]</sup>

PC12 cells	
1, 2.5, 5, 10, 20, 40, 80 μM	
40 hours	
Reduced p75NTR- or NRAGE-induced cell death by greater than 90% at the concentration of 40 $\mu$ M. Exerted a slight toxic effect in cells infected with the LacZ control at the concentration of 80 $\mu$ M.	
PC12 cells	
10, 20, 40 μM	
30 hours	
Attenuated p75NTR- and NRAGE-induced c-Jun phosphorylation and caspase-3 cleavage, and the levels of c-Jun protein.	

## REFERENCES

[1]. Salehi AH, et, al. AEG3482 is an antiapoptotic compound that inhibits Jun kinase activity and cell death through induced expression of heat shock protein 70. Chem Biol. 2006 Feb;13(2):213-23.

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

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