TH-237A

MedChemExpress

Cat. No.:	HY-11054				
CAS No.:	935467-97-3				
Molecular Formula:	C ₁₈ H ₁₇ F ₂ NO ₃				
Molecular Weight:	333.33				
Target:	Others				
Pathway:	Others				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		

SOLVENT & SOLUBILITY

In Vitro	Ethanol : 100 mg/mL (300.00 mM; Need ultrasonic) DMSO : ≥ 46 mg/mL (138.00 mM) * "≥" means soluble, but saturation unknown.						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	3.0000 mL	15.0002 mL	30.0003 mL		
		5 mM	0.6000 mL	3.0000 mL	6.0001 mL		
		10 mM	0.3000 mL	1.5000 mL	3.0000 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.50 mM); Clear solution						
	2. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.50 mM); Clear solution						
	3. Add each solvent one by one: 10% EtOH >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.50 mM); Clear solution						

BIOLOGICAL ACTIVITYDescriptionTH-237A(meso-GS 164) is a novel neuroprotective agent exhibiting favorable permeation across the blood brain barrier.IC50
value: 5 nM (EC50, concentration that leads to a 50% increase in neuronal survival in the presence of the Aβ peptides)Target:
Primary neurons were isolated from embryonic Sprague-Dawley rats, grown in culture (Michaelis et al., 1994) and exposed
to either Aβ25-35 or Aβ1-42 in the presence or absence of TH-237A at concentrations ranging from 0.5 to 60 nM. The neurons
were treated with TH-237A for 2 hours prior to exposure to the Aβ peptides. Changes in neuronal survival following



treatment with TH 237A were evaluated using the Live/Dead assay. The EC50 for TH-237A was 5 nM, demonstrating that it had excellent neuroprotective properties.

REFERENCES

[1]. Kelly E. Desino, Improving Blood Brain Barrier Permeation of Small Molecules Exhibiting Chemotherapeutic and Neuroprotective Effects.

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

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