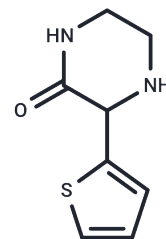


Tenilsetam

Chemical Properties

CAS No. :	86696-86-8
Formula:	C ₈ H ₁₀ N ₂ O ₂ S
Molecular Weight:	182.24
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	Tenilsetam (Piperazinone) is an endonuclease modulator; a nootropic agent and advanced glycation end product (AGE) inhibitor having potential for Alzheimer's disease (AD) treatment.
Targets(IC50)	Others, TNF
In vitro	In vitro, tenilsetam inhibited endothelial proliferation at lower doses, while inducing apoptosis at high doses. Leucocyte adhesion was only inhibited at high doses. Sprouting angiogenesis of bovine retinal endothelial cells was promoted at lower doses ($\leq 10 \mu\text{M}$). At micromolar concentrations, endothelial VEGF expression was upregulated by 100%. Long-term treatment with the AGE-inhibitor and iron-chelating compound tenilsetam inhibits the formation of acellular capillaries without correcting pericyte loss. The compound has dose-dependent effects on endothelial cell function.

Solubility Information

Solubility	DMSO: 25 mg/mL (137.18 mM), Sonication is recommended. (<math>< 1 \text{ mg/ml}</math> refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.4873 mL	27.4363 mL	54.8727 mL
5 mM	1.0975 mL	5.4873 mL	10.9745 mL
10 mM	0.5487 mL	2.7436 mL	5.4873 mL
50 mM	0.1097 mL	0.5487 mL	1.0975 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

Jennifer Hoffmann , Alex Alt, Jihong Lin, Günther Lochnit, et al. Tenilsetam prevents early diabetic retinopathy without correcting pericyte loss. *Thromb Haemost.* 2006 Apr;95(4):689-95.

Gyengesi E , Liang H , Millington C , et al. Investigation Into the Effects of Tenilsetam on Markers of Neuroinflammation in GFAP-IL6 Mice[J]. *Pharm Res*, 2018, 35(1):22.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481