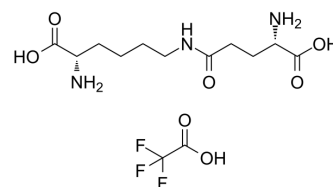


Epsilon-(gamma-glutamyl)-lysine TFA

Cat. No.: HY-113089A
Molecular Formula: C₁₃H₂₂F₃N₃O₇
Molecular Weight: 389.32
Target: Endogenous Metabolite
Pathway: Metabolic Enzyme/Protease
Storage: Sealed storage, away from moisture
 Powder -80°C 2 years
 -20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (642.15 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5686 mL	12.8429 mL	25.6858 mL	
	5 mM	0.5137 mL	2.5686 mL	5.1372 mL	
	10 mM	0.2569 mL	1.2843 mL	2.5686 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.34 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.34 mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.34 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Epsilon-(gamma-glutamyl)-lysine (H-Glu(H-Lys-OH)-OH) TFA is an N(6)-acyl-L-lysine derivative. The enzyme tissue transglutaminase (tTg) helps the formation of epsilon-(gamma-glutamyl)lysine bonds between ECM components in some disease, such as non-diabetic kidney, glaucoma filtration ^[1] .
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. Siegfried G Priglinger, et al. Potential Role of Tissue Transglutaminase in Glaucoma Filtering Surgery. Invest Ophthalmol Vis Sci. 2006 Sep;47(9):3835-45.

[2]. A M El Nahas, et al. Elevated Epsilon-(Gamma-Glutamyl)lysine in Human Diabetic Nephropathy Results From Increased Expression and Cellular Release of Tissue Transglutaminase.Nephron Clin Pract. 2004;97(3):c108-17.

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

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