

## Epsilon-(gamma-glutamyl)-lysine

## Chemical Properties

CAS No. : 17105-15-6

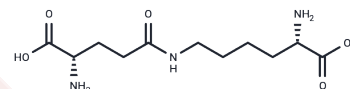
Formula: C<sub>11</sub>H<sub>21</sub>N<sub>3</sub>O<sub>5</sub>

Molecular Weight: 275.31

Keep away from moisture

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   | Epsilon-(gamma-glutamyl)-lysine is an N(6)-acyl-L-lysine derivative that establishes cross-links between extracellular matrix (ECM) components through the catalytic activity of the enzyme tissue transglutaminase (tTg), and Epsilon-(gamma-glutamyl)-lysine has been implicated in the pathological remodeling of tissues in diseases such as non-diabetic kidney disease and in the progression of glaucoma filtration, rendering it a critical biomarker and mechanistic factor in extracellular matrix biology. |
| Targets(IC50) | Others,Endogenous Metabolite  |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.6323 mL | 18.1613 mL | 36.3227 mL |
| 5 mM  | 0.7265 mL | 3.6323 mL  | 7.2645 mL  |
| 10 mM | 0.3632 mL | 1.8161 mL  | 3.6323 mL  |
| 50 mM | 0.0726 mL | 0.3632 mL  | 0.7265 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

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

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.

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