Data Sheet (Cat.No.T35401)

TargetMol

γ-Glu-Gly TFA

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	γ-Glu-Gly TFA, a γ-glutamyl dipeptide and human lipid metabolite, structurally resembles GABA (γ-aminobutyric acid) and functions as an excitatory amino acid antagonist [1][2][3].
Targets(IC50)	Others,Endogenous Metabolite
In vitro	γ-Glu-Gly TFA plays a crucial role in determining the flavor profile of mature cheese. In the yeast S. cerevisiae, the enzyme γ-Glutamyltransferase (GGT) facilitates the formation of two γ-glutamyl peptides, specifically γ-Glu-Glu and γ-Glu-Gly[1].

Reference

Kit-Yi Leung, et al. Regulation of glycine metabolism by the glycine cleavage system and conjugation pathway in mouse models of non-ketotic hyperglycinemia. J Inherit Metab Dis. 2020 Nov;43(6):1186-1198.
Sonu Yadav, et al. Metabolomics shows the Australian dingo has a unique plasma profile. Sci Rep. 2021 Mar 4;11 (1):5245.
Olga A Sofyanovich, et al. Multiple pathways for the formation of the γ-glutamyl peptides γ-glutamyl-valine and γ- glutamyl-valyl-glycine in Saccharomyces cerevisiae. PLoS One. 2019 May 9;14(5):e0216622.

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