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## Product Data Sheet

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Product Name:  $\gamma$ -Glu-Gly TFA

Cat. No.: GC63279

### Chemical Properties

Cas. No.

Formula  $C_9H_{13}F_3N_2O_7$

M.Wt

318.2

Solubility

Storage

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

$\gamma$ -Glu-Gly TFA, a  $\gamma$ -glutamyl dipeptide, is a human lipid metabolite.  $\gamma$ -Glu-Gly TFA has a similar structure to GABA ( $\gamma$ -aminobutyric acid) and can act as an antagonist of excitatory amino acids[1][2][3].

$\gamma$ -Glu-Gly TFA is a key component that influence the flavor of mature cheese. In *S. cerevisiae*,  $\gamma$ -Glutamyltransferase (GGT) produces two  $\gamma$ -glutamyl peptides,  $\gamma$ -Glu-Glu and  $\gamma$ -Glu-Gly[1].

[1]. 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.

[2]. Sonu Yadav, et al. Metabolomics shows the Australian dingo has a unique plasma profile. *Sci Rep*. 2021 Mar 4;11(1):5245.

[3]. Olga A Sofyanovich, et al. Multiple pathways for the formation of the  $\gamma$ -glutamyl peptides  $\gamma$ -glutamyl-valine and  $\gamma$ -glutamyl-valyl-glycine in *Saccharomyces cerevisiae*. *PLoS One*. 2019 May 9;14(5):e0216622.

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

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