

## Gly-Gly-AMC acetate

## Chemical Properties

CAS No. :

Formula: C<sub>14</sub>H<sub>15</sub>N<sub>3</sub>O<sub>4</sub>.xHCl

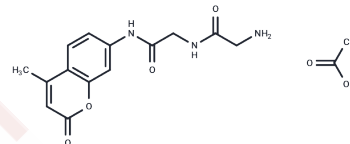
Molecular Weight:

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	Gly-Gly-AMC acetate serves as a key synthetic intermediate for the preparation of a wide range of biologically and chemically active compounds. Gly-Gly-AMC acetate enables the development of functionalized derivatives and complex molecular scaffolds, therefore contributing to advanced research in biomedical and pharmaceutical sciences, as well as mechanistic studies in organic and medicinal chemistry.
Targets(IC50)	Others
In vivo	In preclinical rodent studies, the hydrolysis of Gly-Gly-AMC acetate was analyzed using bone marrow cell lysates from wild-type and DPPI -/- mice, alongside the induction of an acute experimental arthritis model. The experiments showed that lysates from DPPI -/- mice failed to hydrolyze the substrate, which corresponded to a failure in activating downstream serine proteases like Neutrophil Elastase and Cathepsin G, ultimately rendering these mice resistant to acute experimental arthritis.

## Reference

Dahl S W, et al. Human recombinant pro-dipeptidyl peptidase I (cathepsin C) can be activated by cathepsins L and S but not by autocatalytic processing[J]. Biochemistry, 2001, 40(6): 1671-1678.

Adkison A M, et al. Dipeptidyl peptidase I activates neutrophil-derived serine proteases and regulates the development of acute experimental arthritis[J]. The Journal of clinical investigation, 2002, 109(3): 363-371.

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