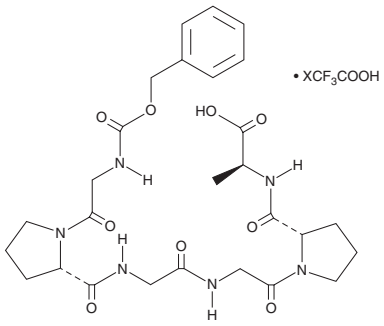
PRODUCT INFORMATION

N-Cbz-Gly-Pro-Gly-Gly-Pro-Ala-OH (trifluoroacetate salt)

Item No. 33343



Formal Name: N-[(phenylmethoxy)carbonyl]glycyl-L-prolylglycylglycyl-L-prolyl-L-alanine, trifluoroacetate salt
Synonym: N-ZGPGGPA-OH
MF: $C_{27}H_{36}N_6O_9 \bullet XCF_3COOH$
FW: 588.6
Purity: ≥98%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

N-Cbz-Gly-Pro-Gly-Gly-Pro-Ala-OH (trifluoroacetate salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the N-Cbz-Gly-Pro-Gly-Gly-Pro-Ala-OH (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. N-Cbz-Gly-Pro-Gly-Gly-Pro-Ala-OH (trifluoroacetate salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of N-Cbz-Gly-Pro-Gly-Gly-Pro-Ala-OH (trifluoroacetate salt) in these solvents is approximately 30 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of N-Cbz-Gly-Pro-Gly-Gly-Pro-Ala-OH (trifluoroacetate salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of N-Cbz-Gly-Pro-Gly-Gly-Pro-Ala-OH (trifluoroacetate salt) in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

N-Cbz-Gly-Pro-Gly-Gly-Pro-Ala-OH is a synthetic peptide collagenase substrate.[1] It has been used to characterize the collagenolytic activity of bacterial collagenases in cell-free assays.[1,2]

References

1. Hefley, T.J. Utilization of FPLC-purified bacterial collagenase for the isolation of cells from bone. *J. Bone Miner. Res.* **2(6)**, 505-516 (1987).
2. Yoshida, E. and Noda, H. Isolation and characterization of collagenases I and II from *Clostridium histolyticum*. *Biochim. Biophys. Acta* **105(3)**, 562-574 (1965).

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