

4338-s β -Defensin-2 (Human) hBD-2

*Antimicrobial Peptide Specific for Gram-Negative Bacteria
Also Effective for Candida albicans*

The vial contains exactly **0.11 mg (25 nmol)** of β -Defensin-2 (Human), which has been lyophilized as an amorphous powder from aqueous acetic acid solution.

Solution: Do not remove the cap.
Inject **250 μ l of distilled water** into the vial using a calibrated syringe. Dissolve all the contents thoroughly.
This procedure furnishes a **0.1 mM** solution of the titled compound.

Storage: (soln.) After preparing 100-200 μ l aliquots, freeze them at -20°C or below until use. The aqueous solution should be used within a few weeks.

Storage: (powder) The undissolved peptide is stable at -20°C for more than one year.

Structure: Gly-Ile-Gly-Asp-Pro-Val-Thr-Cys-Leu-Lys-Ser-Gly-Ala-Ile-Cys-His-Pro-Val-Phe-Cys-Pro-Arg-Arg-Tyr-Lys-Gln-Ile-Gly-Thr-Cys-Gly-Leu-Pro-Gly-Thr-Lys-Cys-Cys-Lys-Lys-Pro
(Disulfide bonds between Cys₈-Cys₃₇, Cys₁₅-Cys₃₀, and Cys₂₀-Cys₃₈)
(M.W. 4328.2) $\text{C}_{188}\text{H}_{305}\text{N}_{55}\text{O}_{50}\text{S}_6$

References:

- 1) J. Harder, *et al.*, *Nature*, **387**, 861 (1997). (*Original*)
- 2) D.M. Hoover, *et al.*, *J. Biol. Chem.*, **275**, 32911 (2000). (*S-S Bond*)
- 3) T. Hiratsuka, *et al.*, *Thorax*, **58**, 425 (2003). (*Pharmacol.; Activity against Pseudomonas aeruginosa*)

β -Defensin-2 (Human) is sold for research purposes only and not for use in humans.

www.peptanova.de/products/Biologically-Active-Peptides/Defensin-and-LL-37/Beta-Defensin-2-Human.html