

Product Sheet

Thymosin beta-4

Catalog # TB4-100

Description Thymosins are small polypeptides originally isolated from the thymus, but most are actually present in many other tissues. The archetypical beta-Thymosin is Thymosin-beta4, which is a cellular constituent in many tissues. In addition to its role as a major actin-sequestering molecule, Thymosin-beta4 has a role in tissue repair. Such effect have been shown in animal models of tissue damage and now in human clinical trials. Recently, Thymosin-beta4 was shown to stimulate regeneration of adult cardiac progenitor cells in a paper published in Nature (*Smart, et al., Nature, 2011, June 8th*).

Amino Acid Sequence: Ac-Ser-Asp-Lys-Pro-Asp-Met-Ala-Glu-Ile-Glu-Lys-Phe-Asp-Lys-Ser-Lys-Leu-Lys-Lys-Thr-Glu-Thr-Gln-Glu-Lys-Asn-Pro-Leu-Pro-Ser-Lys-Glu-Thr-Ile-Glu-Gln-Glu-Lys-Gln-Ala-Gly-Glu-Ser-OH

MW: 4963.55

Formulation Lyophilized in a solution of acetonitrile and TFA.

Reconstitution Before reconstitution, we recommend a brief spin to drive down any material dislodged from the bottom of the tube. The lyophilized peptide should be reconstituted in sterile PBS.

Stability The lyophilized protein is stable for at least 1 year if stored at -80 degree C. Reconstituted protein is stable for at least 1 month at 4 degree C, but should be stored in aliquots at -80 degree C for longer term. Avoid repeated freeze and thaw.

Purity Greater than 95% as determined by RP-HPLC analysis

Biological Activity Not determined.

Country of Origin USA

For Research Use Only. Not for Use in Humans.