

**DESCRIPTION**

**Source** Mouse myeloma cell line, NS0-derived  
Ser293 - Arg408  
Accession # Q53XC5

**N-terminal Sequence Analysis** Ser293

**Structure / Form** Disulfide-linked homodimer

**Predicted Molecular Mass** 13 kDa (monomer)

**SPECIFICATIONS**

**SDS-PAGE** 22-25 kDa, reducing conditions  
37-41, non-reducing conditions

**Activity** Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. Binnerts, M.E. *et al.* (2004) *Biochem. Biophys. Res. Commun.* **315(2)**:272.  
The ED<sub>50</sub> for this effect is 2.5-15.0 ng/mL.

**Endotoxin Level** <0.01 EU per 1 µg of the protein by the LAL method.

**Purity** >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

**PREPARATION AND STORAGE**

**Reconstitution** For a stock solution, reconstitute at 50-200 µg/mL in sterile 4 mM HCl, or simply roll ProDot® directly into cell culture medium for immediate use.

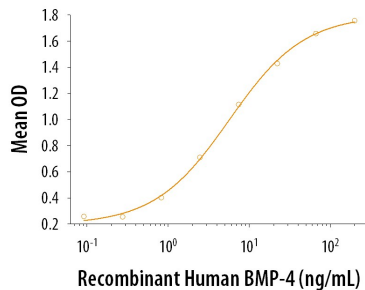
**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**

- 6 months from date of receipt at room temperature as supplied.
- 12 months from date of receipt at 2-8 °C as supplied.
- 1 month at 2-8°C under sterile conditions after reconstitution.
- 3 months at -20 to -80°C under sterile conditions after reconstitution.

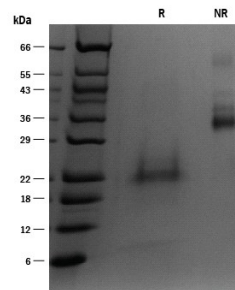
**DATA**

**Bioactivity**



ProDots® Recombinant Human BMP-4 induces alkaline phosphatase production in the ATDC5 mouse chondrogenic cell line. The ED<sub>50</sub> for this effect is 2.5-15.0 ng/mL.

**SDS-PAGE**



1 µg/lane of ProDots® Recombinant Human BMP-4 was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized with silver staining, showing multiple bands at 22-25 kDa and 37-41 kDa, respectively. Multiple bands in the gel are due to variable glycosylation.

**PRODUCT SPECIFIC NOTICES**

726251.1