

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 ED₅₀ 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.

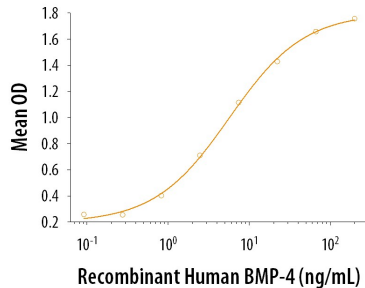
Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

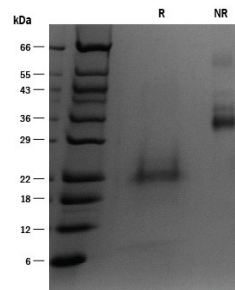
DATA

Bioactivity



ProDots® Recombinant Human BMP-4 induces alkaline phosphatase production in the ATDC5 mouse chondrogenic cell line. The ED₅₀ 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