R&D SYSTEMS
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ProDots™ Recombinant Human BMP-4

Catalog Number: PRD314

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

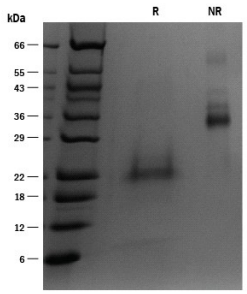
SDS-PAGE	22-25 kDa, reducing conditions 37-41, non-reducing conditions
Activity	Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. Binnerts, M.E. *et al.* (2004) Biochem. Biophys. Res. Commun. **315(2)**:272. The ED_{50} for this effect is typically 2.5-15.0 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	Add ProDot directly to the medium or reconstitute at 50-200 µg/mL in sterile 4 mM HCl.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manualdefrost freezer and avoid repeated freeze-thaw cycles.** • 6months from date of receipt at 2-8 °C as supplied. • 1 month at 2-8°C under sterile conditions after reconstitution. • 3 months at -20to -80 °C under sterile conditions after reconstitution.

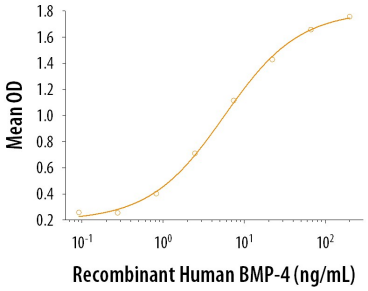
DATA

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.

Bioactivity



ProDots Recombinant Human BMP-4 induces alkaline phosphatase production in the ATDC5 mouse chondrogenic cell line. The ED_{50} for this effect is typically 2.5-15.0 ng/mL.

PRODUCT SPECIFIC NOTICES

726251.0

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