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Recombinant human GDF-11 (BMP-11) protein (Qk126)



Type: Stem cells, New

Available for purchase: unit size (µg): 25, 50, 100, 500, 1000

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Product Information

Growth differentiation factor -11 (GDF-11) also known as bone morphogenetic protein 11 (BMP-11) is a member of the transforming growth factor-beta (TGF-β) superfamily, a group of proteins that play key roles in regulating cell growth, survival and differentiation. GDF-11 plays a key role in cardiac and neuronal development.

Qkine recombinant GDF-11 (BMP-11) is provided as a pure 25 kDa dimer with high and consistent bioactivity lot-to-lot.

Alternative protein names

Growth Differentiation Factor 11, GDF11, BMP11, Bone Morphogenetic Protein 11, VHO

Molecular weight

25 kDa (dimer)

Protein Uniprot number

High purity human protein (UniProt: H0YI30)

Species reactivity

- human
- species similarity:
- mouse - 100%
- rat - 100%

- bovine - 100%
- porcine - 100%
- sheep - 100%

Product Information

- >98%, by SDS-PAGE quantitative densitometry
- Expressed in *E. coli*
- Animal origin-free (AOF) and carrier protein-free
- Manufactured in our ISO 9001:2015 facility in Cambridge, UK
- Lyophilized from acetonitrile

Reconstitution instructions

- Resuspend in 10 mM HCl (Reconstitution solution A) at >50 µg/ml

Featured applications

- Neurogenesis and neural differentiation
- Wound healing and tissue repair

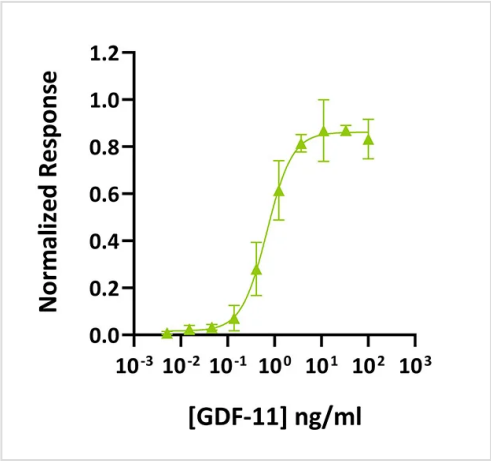
Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein

Scientific Information

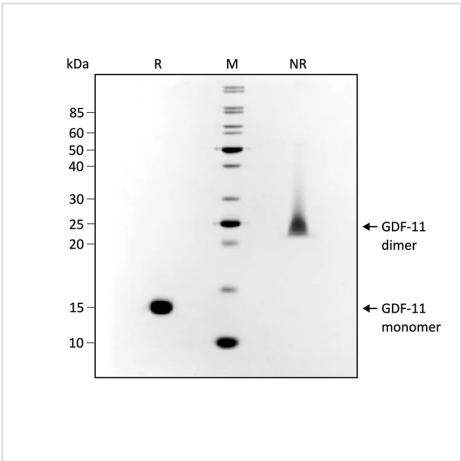
Bioactivity

Recombinant GDF-11 activity was determined using a Smad reporter assay in transfected HEK293 cells. HEK293 cells were treated in triplicate with a serial dilution of GDF-11 for 6 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. Data from Qk126 lot 204827. EC50 = 0.69 ng/ml (27.6 pM)



Purity

Recombinant GDF-11 (BMP-11) at approximately 12.5 kDa (monomer) in reduced (R) and approximately 25 kDa non-reduced (NR) conditions. No contaminating protein bands are present. The purified recombinant protein (1.5 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptoethanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk126 lot #204827.



Original product page: https://qkine.com/product/recombinant-human-gdf-11-bmp-11-protein-qk126/

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