

BMP-11/GDF-11, human recombinant protein
Growth/Differentiation Factor-11, BMP-11
Catalog # PBV10785r**Specification**

BMP-11/GDF-11, human recombinant protein - Product info

Primary Accession [O95390](#)
Calculated MW 25 kDa KDa

BMP-11/GDF-11, human recombinant protein - Additional Info

Gene ID	10220
Gene Symbol	GDF11
Other Names	
Growth/Differentiation Factor-11, BMP-11	
Gene Source	Human
Source	E.coli
Assay&Purity	SDS-PAGE; ≥98%
Assay2&Purity2	HPLC;
Recombinant	Yes
Sequence	NLGLDCDEHS SESRCCRYPL TVDFEAFGWD WIIAPKRYKA NYCSGQCEYM FMQKYPHTL VQQANPRGSA GPCCTPTKMS PINMLYFNDK QQIIYGKIPG MVDVRCGCS

Target/Specificity
BMP-11

Application Notes

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Keep pH below 5.0. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format

Lyophilized powder

Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized with no additives.

BMP-11/GDF-11, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BMP-11/GDF-11, human recombinant protein - Images**BMP-11/GDF-11, human recombinant protein - Background**

GDF-11 is a myostatin-homologous protein that acts as an inhibitor of nerve tissue growth. GDF-11 has been shown to suppress neurogenesis through a myostatin-like pathway, which involves arrest of progenitor cell cycle in the G1 phase. Similarities between myostatin and GDF-11, which are 90% identical in their amino acid sequence, suggests that the regulatory mechanisms responsible for maintaining proper tissue size during neural and muscular development might be the same. Recombinant human GDF-11 is a 25.0 kDa disulfide-linked homodimer containing two 109 amino acid polypeptide chains. It is highly homologous to myostatin/GDF-8 sharing 90% amino acid sequence identity.

BMP-11/GDF-11, human recombinant protein - References

Gamer L.W., et al. Dev. Biol. 208:222-232(1999).
McPherron A.C., et al. Nat. Genet. 22:260-264(1999).