

Product: **Recombinant Human GDF-11**
Cat #: 300-221P
Powder

Description	Growth differentiation factor 11 (GDF-11 or BMP-11) is an important developmental factor that regulates muscular and neural development. In adults, GDF-11 is suspected to promote the reversal of cardiac hypertrophy by the regeneration of cardiomyocytes. Alternate names: BMP-11
MW	Non-glycosylated homodimer, containing two 109 amino acids chains, with each having a molecular weight of 12.5 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Lyophilized from a sterile filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by the ability to decrease alkaline phosphatase activity in ATDC5 cells and is typically less than 1 ng/mL. This corresponds to an expected specific activity of 1 x 10 ⁶ units/mg.
Endotoxin Level	Measured by kinetic LAL analysis and is typically < 0.05 EU/μg protein.
AA Sequence	NLGLDCDEHS SESRCCRYPL TVDFEAFGWD WIIAPKRYKA NYCSGQCEYM FMQKYPHTHL VQQANPRGSA GPCCTPTKMS PINMLYFNDK QQIYGKIPG MVDRCGCS

Purity greater than 97% determined by Reducing and Non-reducing SDS-PAGE, HPLC.

Protein content determined by Reducing and Non-reducing SDS-PAGE, HPLC.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!