

## Growth and Differentiation factor 11 Human Recombinant

<b>Item Number</b>	rAP-0379
<b>Synonyms</b>	Growth Differentiation Factor 11, GDF-11, Bone Morphogenetic Protein 11, BMP11.
<b>Description</b>	GDF11 Human Recombinant produced in E.Coli is a non-glycosylated homodimer containing 2x109 amino acids and having a total molecular mass of 25.0kDa.&nbsp;
<b>Uniprot Accession Number</b>	O95390
<b>Amino Acid Sequence</b>	NLGLDCDEHS SESRCCRYPL TVDFEAFGWD WIIAPKRYKA NYCSGQCEYM FMQKY-PHTHLVQQANPRGSA GPCCTPTKMS PINMLYFNDK QQIYGKIPG MVVDRCGCS&nbsp;
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized GDF11 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GDF11 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
<b>Formulation and Purity</b>	Lyophilized from a concentrated (1mg/ml) solution containing 0.1% Trifluoroacetic Acid (TFA). Greater than 97.0% as determined by:&nbsp;(a) Analysis by HPLC.&nbsp;(b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized GDF11 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.&nbsp;
<b>Biological Activity</b>	The ED50 as determined by the ability to inhibit alkaline phosphatase activity in ATDC5 cells, is 0.2-0.3ng/ml, corresponding to a specific activity of 5 x 106units/mg.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**