

Growth and Differentiation factor 7 Human Recombinant

Item Number	rAP-0391
Synonyms	Growth Differentiation Factor 7, GDF-7, Growth/Differentiation Factor 7, BMP12, GDF7.
Description	GDF7 Human Recombinant (322-450) produced in E.Coli is a disulfide-linked homodimeric, non-glycosylated, polypeptide chain containing 129 amino acids and having a molecular mass of 28kDa. The GDF-7 is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	Q7Z4P5
Amino Acid Sequence	TALAGTRTAQ GS ₆ GGAGRGH GRRGRS ₂ CSR KPLHVDFKEL GWDDWIIAPL DYEAYHCEGL CDFPLRS ₂ HLE PTNHAI ₂ QTL LNSMAPDAAP ASCCVPARLS PISILYIDAA NNVYKQYED MVVEACGCR.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized GDF7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GDF-7 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.
Formulation and Purity	Lyophilized from a 0.2µm filtered solution in HCl. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized GDF-7 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ , as determined by inducing alkaline phosphatase production by mouse ATDC5 cells, is less than 1.25µg/ml.
Shipping Format and Condition	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**