

Growth and Differentiation factor 7 Mouse Recombinant

Item Number	rAP-0398
Synonyms	Growth/differentiation factor 7, GDF-7, Gdf7.
Description	GDF7 Mouse Recombinant produced in E.coli is a non-glycosylated disulfide linked homodimer containing 2 chains of 146 amino acids and having a molecular mass of 29.8kDa. The GDF-7 is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P43029
Amino Acid Sequence	TALAGTRGAQ GSGGGGGGGG GGGGGGGGGG GGAGRGHGRR GRSRCSRKSL HVDFKELGWD DWIAPLDYE AYHCEGVCDF PLRSHLEPTN HAIQTLNLS MAPDAAPASC CVPARLSPIS ILYIDAANNV VYKQYEDMVV EACGCR.
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	GDF7 protein was lyophilized from a 0.2µm filtered concentrated solution in 30% Acetonitrile and 0.1% TFA. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized GDF-7 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 as determined by inducing alkaline phosphatase production of murine ATDC5 cells is less than 0.5µg/ml, corresponding to a specific activity of > 2000 IU/mg.
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**