

Recombinant Human GDF7 Protein, His-tagged

Cat. No. GDF7-2200H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GDF7 Protein (Thr322-Arg450) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Thr322-Arg450
Description	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein may play a role in the differentiation of tendon cells and spinal cord interneurons. A mutation in this gene may be associated with increased risk for Barrett's esophagus and esophageal adenocarcinoma.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 17.7 kDa Accurate Molecular Mass: 18&16 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	GDF7 growth differentiation factor 7 [Homo sapiens (human)]
Official Symbol	GDF7
Synonyms	GDF7; growth differentiation factor 7; growth/differentiation factor 7; BMP12; GDF-7;
Gene ID	151449
mRNA Refseq	NM_182828
Protein Refseq	NP_878248
MIM	604651

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UniProt ID

Q7Z4P5

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