

Active Recombinant Human/Mouse/Rat GDF11 Protein

Cat. No. GDF11-104H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human/Mouse/Rat GDF11 Protein without tag was expressed in E. coli.
Species	Human/Mouse/Rat
Source	E.coli
Description	Growth differentiation factor 11 (GDF-11), also known as bone morphogenetic protein 11 (BMP-11), is a regulator of cell growth and differentiation during muscular and neural development. GDF-11 binds the transforming growth factor-beta receptors ALK4, ALK5, and ALK7 to activate SMAD signaling. In adults, exogenous GDF-11 promotes cardiomyocyte regeneration to reverse age-related cardiac hypertrophy.
Bio-activity	Alkaline phosphatase activity in ATDC5 cells, ≤ 100 ng/mL
Molecular Mass	Dimer, 12.5/24.9 kDa (109/218 aa)
AA Sequence	NLGLDCDEHSSSRCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGQCEYMFQMKY PHTHLVQQANPRGSAGPCCTPTKMSPINMLYFNDKQQIIYGKIPGMVVDRCGCS
Endotoxin	≤ 1 EUs/ μ g, Kinetic LAL
Purity	$\geq 95\%$, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed.

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3 months when stored at -20 to -80 centigrade after reconstituting as directed.

Storage

Storage Prior to Reconstitution: -20 centigrade

Storage Buffer

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

Reconstitution

Sterile 10 mM HCl at 0.1 mg/mL

Shipping

Room temperature

Instructions

Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name

GDF11 growth differentiation factor 11 [Homo sapiens (human)]

Official Symbol

GDF11

Synonyms

GDF11; growth differentiation factor 11; growth/differentiation factor 11; BMP 11; GDF-11; bone morphogenetic protein 11; BMP11; BMP-11;

Gene ID

10220

mRNA Refseq

NM_005811

Protein Refseq

NP_005802

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MIM	603936
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UniProt ID	O95390
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