

ARG70097 Human GDF11 recombinant protein (Active) (His-tagged, C-ter)

Package: 100 µg, 20 µg
Store at: -20°C

Summary

Product Description	E. coli expressed, His-tagged (C-ter) Active Human GDF11 recombinant protein
Tested Application	SDS-PAGE
Target Name	GDF11
Species	Human
A.A. Sequence	Asn299 - Ser407
Expression System	E. coli
Activity	Active
Activity Note	Determined by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 11 ng/mL. Determined by its ability to induce hemoglobin expression in K562 cells. The ED50 for this effect is < 4 ng/mL.
Alternate Names	GDF-11; Bone morphogenetic protein 11; BMP11; Growth/differentiation factor 11; BMP-11

Properties

Form	Powder
Purification Note	Endotoxin level is less than 0.1 EU/µg of the protein, as determined by the LAL test.
Purity	> 98% (by SDS-PAGE)
Buffer	20 mM sodium citrate and 0.2 M NaCl (pH 3.5)
Reconstitution	It is recommended to reconstitute the lyophilized protein in 4 mM HCl to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.
Storage instruction	For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	GDF11
Gene Full Name	growth differentiation factor 11
Background	The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in mice and Xenopus suggest that this protein is involved in mesodermal formation and neurogenesis during embryonic development. [provided by RefSeq, Jul 2008]
Function	Secreted signal that acts globally to specify positional identity along the anterior/posterior axis during development. Play critical roles in patterning both mesodermal and neural tissues and in establishing

the skeletal pattern. [UniProt]

Cellular Localization

Secreted. [UniProt]

Images



Human GDF11
recombinant protein

ARG70097 Human GDF11 recombinant protein (Active) (His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70097 Human GDF11 recombinant protein (Active) (His-tagged, C-ter).