Recombinant Human GDF2 Protein(His Tag)

Catalog Number: PDEH101121

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

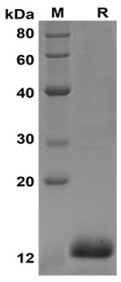
Description

Species	Human
Source	E.coli-derived Human GDF2 BMP9 protein Ser320-Arg429, with an N-teminal His
Mol_Mass	11.9 kDa
Accession	Q9UK05
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis

Data



SDS-PAGE analysis of Human GDF2 proteins, 2μg/lane of Recombinant Human GDF2 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 12 kDa

Background

BMPs belong to the TGF-β superfamily, which currently has over 20 members. BMPs play a vital role in several processes, such as embryogenesis and tissue homeostasis; thus, they are also known as body morphogenetic proteins.9 BMP2, BMP6 and BMP7 are deeply involved in inflammatory disorders, including fibrosis, inflammatory bowel disease, ankylosing spondylitis, and rheumatoid arthritis. BMP9 is considered a unique member of the BMP family as it has the strongest osteogenic effect on mesenchymal stem cells (MSCs), is resistant to the BMP signaling inhibitors, noggin and BMP3,nd significantly affects vascular homeostasis, angiogenesis, metabolism, neurogenesis, and pro- or anti-tumorigenesis.

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