

Recombinant Mouse Growth/Differentiation Factor 11 (Gdf11), N-His

Cat. No.: AP4C901

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Mouse Growth/Differentiation Factor 11 (Gdf11), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 31.8 kDa. The purity is > 90%.

Specifications

Type	Recombinant Protein
Species	Mouse
Expression System	<i>E.coli</i>
Purity	> 90%
Endotoxin	<1.0 EU per 1µg (determined by the LAL method)
Predicted Molecular Weight	31.8 kDa
Physical State	Lyophilized
Formulation	20 mM Tris, 150 mM NaCl, pH8.0, containing 0.01% SKL, 5% Trehalose.

Target Information

Mouse Growth/Differentiation Factor 11 (Gdf11) is a member of the TGF-β superfamily, playing a critical role in embryonic development and tissue homeostasis. In mouse embryos, Gdf11 is predominantly expressed in the tail bud and is essential for anterior-posterior axis specification, influencing the positional identity of the skeleton. Gdf11-null mice exhibit severe skeletal abnormalities, including transformations in the vertebrae and rib structures. Additionally, Gdf11 is involved in craniofacial development, with null mice showing a high incidence of cleft palate. Beyond embryonic development, Gdf11 has been implicated in the regulation of muscle regeneration, erythropoiesis, and metabolic processes. In aging studies, Gdf11 has been reported to have both positive and negative effects on muscle function and cardiovascular health, with some studies suggesting its potential as an anti-aging factor.

Protein	Mouse Growth/Differentiation Factor 11 (Gdf11)
Protein Synonym	GDF-11; Bone morphogenetic protein 11; BMP-11
Gene ID	14561
EC No.	Q9Z1W4

Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -80°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in deionized sterile water to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.