

# Product Datasheet

## Recombinant Mouse GDF-5/BMP-14 Protein NBP2-61339-1mg

Unit Size: 1mg

Store at -20 to -70C as supplied. After reconstitution, store at 2 to 8C for 1 month and at -20 to -70C for long term storage. Avoid repeated freeze-thaw cycles.

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**NBP2-61339-1mg**

Recombinant Mouse GDF-5/BMP-14 Protein

Product Information	
Unit Size	1mg
Concentration	Lyoph
Storage	Store at -20 to -70C as supplied. After reconstitution, store at 2 to 8C for 1 month and at -20 to -70C for long term storage. Avoid repeated freeze-thaw cycles.
Preservative	No Preservative
Reconstitution Instructions	Recommended to centrifuge prior to opening. Reconstitute in 4 mM HCl to a concentration of 0.1-1.0mg/mL.
Purity	>95%, by SDS-PAGE and HPLC
Buffer	Lyophilized from a 0.2 um filtered concentrated solution in 30 % Acetonitrile and 0.1 % TFA.
Target Molecular Weight	27.2 kDa

Product Description	
Description	A disulfide-linked homodimeric protein containing two 120 amino acids chains corresponding to GDF-5/BMP-14 <b>Source:</b> <i>E. coli</i>  <b>Uniprot ID:</b> <i>P43027</i>  <b>Amino Acid Sequence:</b> <i>APLANRQGKR PSKNLKARCS RKALHVNFKD MGWDDWIIAP LEYEAFHCEG LCEFPLRSHL EPTNHAVIQT LMNSMDPEST PPTCCVPTRL SPISILFIDS ANNVVYKQYE DMVVESCGCR</i>
Gene ID	8200
Gene Symbol	GDF5
Species	Mouse
Details of Functionality	Fully biologically active when compared to standard. The ED50 as determined by inducing alkaline phosphatase production of murine ATDC5 cells is less than 1.0 ug/ml, corresponding to a specific activity of > 1000 IU/mg.
Endotoxin Note	Less than 0.1 EU/ug of GDF-5/BMP-14 as determined by LAL method.

Product Application Details	
Applications	Bioactivity
Recommended Dilutions	Bioactivity

**Publications**

Pang B, Zhang LL, Li B et al. BMP5 ameliorates diabetic peripheral neuropathy by augmenting mitochondrial function and inhibiting apoptosis in Schwann cells Biochemical and biophysical research communications 2022-12-24 [PMID: 36587524]





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### **Products Related to NBP2-61339-1mg**

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NBP2-61378-1mg	Recombinant Human GDF-5/BMP-14 Protein
7754-BH-005/CF	TGF-beta 1 [Unconjugated]
AF853	GDF-5/BMP-14 Antibody [Unconjugated]
314-BP-010	BMP-4 [Unconjugated]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 3 months from date of receipt.

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