

Technical Data Sheet

Recombinant human GDF-15 protein



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Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <https://bioxcell.com/terms-and-conditions>.

Lot Specific Information

Lot Number: Lot Specific*

Total Protein: Lot Specific*

*This information will be noted on the certificate of analysis that ships with this product.

Shelf Life

This product has a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended.

Product Website Link: <https://bioxcell.com/recombinant-human-gdf-15-protein-rp006>

Product Information

Catalog Number:	RP006
Protein Identity:	Confirmed identity with expected mass, determined by mass spectrometry
Recommended Dilution Buffer:	InVivoPure Reconstitution Buffer A
Formulation:	Lyophilized, white powder
Endotoxin:	≤0.5 EU/mg, LAL assay
Purity:	≥95%; SDS-PAGE
Reconstitution:	Resuspend in 10 mM HCl (Reconstitution solution A) at >50 µg/ml. Once reconstituted, store in single-use aliquots to avoid freeze-thaw cycles. Store reconstituted protein at -20 °C to -80 °C for a maximum of 12 months or until the expiry date if sooner.
Sterility:	Sterile
Production:	Microbial. Expressed in E. coli
Molecular Weight:	25 kDa (dimer)
Bioactivity Assay:	No significant difference between EC50 of reference and test lots
Mycoplasma:	Negative

Description

Recombinant human GDF-15 protein (growth differentiation factor 15) is a distant, divergent member of the TGF-β superfamily and an important biomarker of cellular stress, with circulating serum levels linked to cancer, cardiovascular disease, obesity and metabolic disease. Unlike most TGF-β family members that activate SMAD signaling, GDF-15 signals through the GRAL receptor and co-receptor RET, driving RET phosphorylation and downstream ERK and AKT pathway activation. Because commercial mammalian-expressed GDF-15 is frequently contaminated with trace TGF-β and related proteins that produce misleading results at picomolar to femtomolar EC50s, this recombinant GDF-15 is produced in E. coli with no animal products in culture or purification and is validated with a well-characterized SMAD2/3 activation assay to confirm the absence of SMAD signaling, ensuring high-purity, contamination-free performance for signaling and metabolic research. This protein is optimized for in vivo and functional applications: low-endotoxin, tag-free, and carrier-free, supporting reproducible performance in demanding preclinical and bioactivity studies. Species reactivity: human. Species similarity: mouse - 67%, rat - 66%, bovine - 66%, porcine - 67%.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at <https://bioxcell.com/faqs>.

Store lyophilized protein between -20 °C and -80 °C until the date of expiry. Avoid freeze-thaw cycles

Conditions: For research use only. Not for use in diagnostic or therapeutic

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