

## Mouse Growth Differentiation Factor 10 (GDF10) ELISA Kit-Sandwich

**Cat. No.:** EK6F873

**Product Type:** Animal Immunoassay Kits

**Size:** 48T;96T

### Product Overview

BioVenic Mouse Growth Differentiation Factor 10 (GDF10) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse GDF10 in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

### Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Growth Differentiation Factor 10 (GDF10).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	0.17-10 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

### Target Information

Growth/differentiation factor 10 (GDF10) is a growth factor that plays a role in osteogenesis and adipogenesis. It inhibits osteoblast differentiation through the SMAD2/3 pathway and also suppresses adipogenesis. In a mouse model of stroke, GDF10 has been shown to support axon growth and facilitate functional recovery. Studies indicate that GDF10 enhances axon growth in cortical neurons and improves motor recovery via the TGF $\beta$  receptor signaling pathway. Overexpression of GDF10 significantly boosts motor coordination and performance in grid walking tests in mice, whereas reducing GDF10 levels hampers these recovery processes. Additionally, GDF10 aids functional recovery post-stroke by promoting angiogenesis and astrogliosis.

Target/Biomarker	Mouse GDF10
Target Synonym	BMP-3b; BMP3B;bone morphogenetic protein 3B;BIP;
Gene ID	<a href="#">14560</a>

**Shipping and Storage**

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

---

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.