

BAMBI Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	2610003H06Rik;BMP and activin membrane-bound inhibitor
Protein Construction:	Glu27-Ala152
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q9D0L6
Molecular Weight:	40.7 kDa (Predicted); 49-55 kDa (Reducing conditions due to glycosylation)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Bone morphogenic protein and activin membrane-bound inhibitor (BAMBI) is a transmembrane protein that affects the growth, development and muscle regeneration of the body by regulating the TGF-β, BMP and Wnt signaling pathways. In brief, BAMBI may be a functional gene for the differentiation of bovine preadipocytes and myoblasts, and variations in the BAMBI genomic region, especially the combined haplotype H1H4, may benefit marker-assisted selection in cattle.

Reference

- Sekiya T, et al. (2003) Identification of BMP and Activin Membrane-bound Inhibitor (BAMBI), an Inhibitor of Transforming Growth Factor- Signaling, as a Target of the -Catenin Pathway in Colorectal Tumor Cells. *The Journal of Biological Chemistry*. 279:6840-6.
- Shi YG, et al. (2003) Mechanisms of TGF- Signaling from Cell Membrane to the Nucleus. *Cell*. 113(6): 685-700.
- Wanninger J, et al. (2011) Adiponectin induces the transforming growth factor decoy receptor BAMBI in human hepatocytes. *FEBS Lett*. 585(9):1338-44.

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