

# Mouse Activin B, His Tag, E. coli

Catalog Number LDG083PME

**Package** 5 μg / 20 μg / 100 μg / Customized package

For full product information, images and publications, please visit our website.



## **Specifications**

**Species of Origin** 

Mouse

**Affinity Tag** 

His Tag (C-term)

**Purity** 

>95% as determined by SDS-PAGE analysis.

**Activity** 

Measure by its ability to induce hemoglobin expression in K562 cells. The ED $_{50}$  for this effect is <1 ng/mL.

**Form** 

Lyophilized

**Expression system** 

Escherichia coli

**Buffer** 

Lyophilized from a 0.2  $\mu m$  filtered solution of PBS, pH 8.0.

Molecular weight

The protein has a calculated MW of 13.71 kDa. The protein migrates about 12 kDa under reducing condition (SDS-PAGE analysis).

**Endotoxin level** 

<0.1 EU per 1  $\mu g$  of the protein by the LAL method.

## **Background**



#### **Background**

Activin B is the cytokine of the TGF beta family, which is a 12.9 kDa protein containing 116 amino acid residues. Activin B has the wide variety of biological function including stem cell differentiation, inflammation, bone remodeling and neural development. It also has a role in regulation of FSH secretion. Activin B induces the phosphorylation of Smad which binds the smad binding element.

## **Synonyms**

Inhibin beta B chain, Activin beta-B chain

#### **Uniprot ID**

#Q04999

### **Sequence Note**

Gly297-Ala411

### Instruction

#### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient redissolved.

**Shipping** 

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

#### **Stability & Storage**

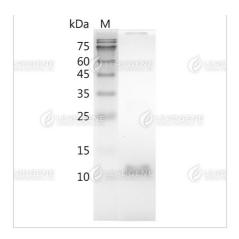
This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

## **Image**





SDS-PAGE analysis of recombinant mouse Activin B.

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