

# CHAMOT

**Recombinant Activin A, Human/Mouse/Rat,  
Animal-Free**

**CM118-5HP**

**CM118-20HP**

**CM118-100HP**

**CM118-500HP**

**CM118-1000HP**



**CHAMOT**

乔默®生物

*Specialize In Cytokines*



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## Recombinant Activin A, Human/Mouse/Rat, Animal-Free

| Catalog# | CM118-5HP | CM118-20HP | CM118-100HP | CM118-500HP | CM118-1000HP |
|----------|-----------|------------|-------------|-------------|--------------|
| Size     | 5 ug      | 20 ug      | 100 ug      | 500 ug      | 1 mg         |

### Product Specifications

**Background** Activin is the member of the TGF beta superfamily of cytokines. The current understanding of Activin A is classified as a hormone, a Growth Factors, and a cytokine. Depending on the different cell type, that overexpression of Activin A can either inhibit or promote cells division. There are important implications for tumor biology. Activin A also increase joint inflammation in rheumatoid arthritis (RA) and induces pathogenic mechanisms in the respiratory system.

**Synonyms** Inhibin beta A chain, Activin beta-A chain, Erythroid differentiation protein

**Uniprot ID** P08476(Human), Q04998 (Mouse), P18331(Rat)

**Molecular Weight** The protein has a calculated MW of 13.1 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).

**Expression System** Escherichia coli

**Purity** >95% as determined by SDS-PAGE.

**Activity** Measure by its ability to inhibit the proliferation of mouse MPC-11 cells. The ED<sub>50</sub> for this effect is <10 ng/mL. The specific activity of recombinant human Activin A is approximately >1.0 x 10<sup>3</sup> IU/mg.

**Endotoxin Level** <0.1 EU per 1 µg of the protein by the LAL method.

**Protein Sequence** GLECDGKVNICKKKQFFVSFKDIGWNDWIIAPSGYHANYCEGECPSHIAGTSGSSLSFHSTVINHYRMRGHSPFANLKSCCVPTKLRPMSMLYDDGQNIKKDIQNMIVEECGCS

**Form** The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

**Application** Cell Culture

## Product Note

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

## Storage/Shipping

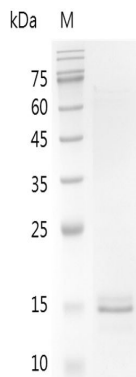
### Stability & Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Shipping

Blue Ice

## Scientific Data



SDS- PAGE analysis of recombinant human/mouse/rat Activin A

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