# **CHAMOT**

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

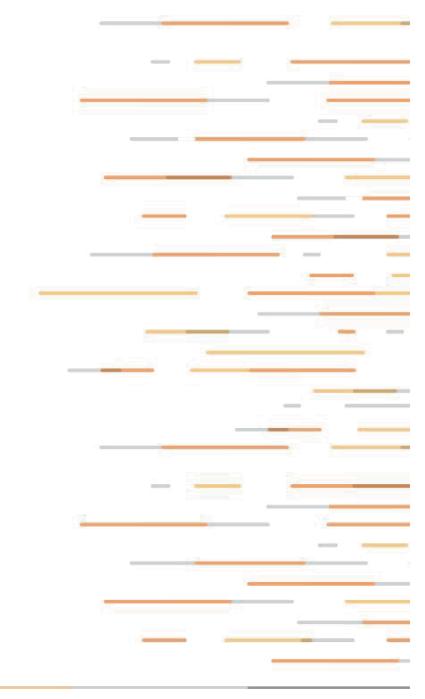
CM118-5HP

CM118-20HP

CM118-100HP

CM118-500HP

CM118-1000HP





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### **Product Datasheet**

### 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 $_{50}$ for this effect is <10 ng/mL. The specific activity of recombinant human Activin A is approximately >1.0 x $10^3$ IU/mg.		
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.		
Protein Sequence	GLECDGKVNICCKKQFFVSFKDIGWNDWIIAPSGYHANYCEGECPSHIAGTSGSSLSFHSTV INHYRMRGHSPFANLKSCCVPTKLRPMSMLYYDDGQNIIKKDIQNMIVEECGCS		
Form	The protein was lyophilized from a 0.2 $\mu$ m 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  $H_2O$  to a concentration not less than 100  $\mu$ g/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

For Research Use or Further Manufacturing Only

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