CHAMOT

Recombinant Activin B, Human, Animal-Free

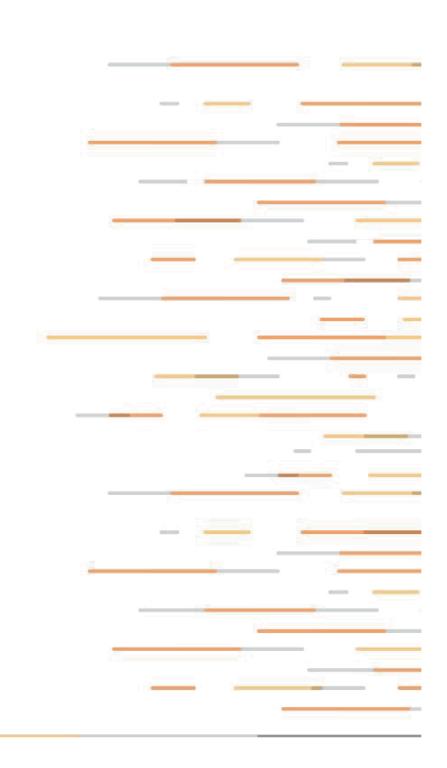
CM119-5HP

CM119-20HP

CM119-100HP

CM119-500HP

CM119-1000HP





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Product Datasheet

Recombinant Activin B, Human, Animal-Free

Catalog#	CM119-5HP	CM119-20HP	CM119-100HP	CM119-500HP	CM119-1000HP
Size	5 ug	20 ug	100 ug	500 ug	1 mg

Product Specifications

Background	Activin B is the cytokine of the TGF-beta family, which is a 13 kDa protein containing 115 amino acid residues. Activin B has the wide variety of biological function including stem cell differentiation, inflammation, bone remodeling and neural development. They also have a role in regulation of FSH secretion. Activin B induces the phosphorylation of Smad which binds the smad binding element.		
Synonyms	Activin Beta B, INHBB; inhibin beta B chain		
Uniprot ID	P09529		
Molecular Weight	The protein has a calculated MW of 13.75 kDa. The protein migrates as 14 kDa under reducing condition (SDS-PAGE analysis).		
Expression System	Escherichia coli		
Purity	>98% as determined by SDS-PAGE.		
Activity	Measure by its ability to induce hemoglobin expression in K562 cells. The ED $_{50}$ for this effect is <0.7 ng/mL. The specific activity of recombinant human Activin B is > 1.5 x 10 6 IU/mg.		
Endotoxin Level	$<$ 0.1 EU per 1 μ g of the protein by the LAL method.		
Protein Sequence	MGLECDGRTNLCCRQQFFIDFRLIGWNDWIIAPTGYYGNYCEGSCPAYLAGVPGSASSFHTAVVNQYIMRGLNPGTVNSCCIPTKLSTMSMLYFDDEYNIVKRDVPNMIVEECGCA with polyhistidine tag at the C-terminus.		
Form	The protein was lyophilized from a 0.2 μm filtered solution containing 1X PBS, pH 8.0. 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 μ 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

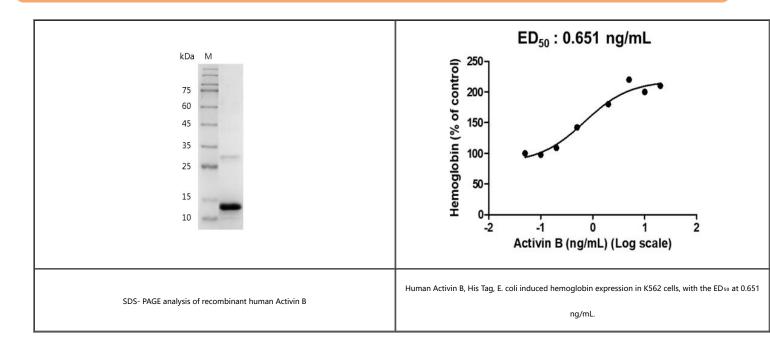
Stability & Storage

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



For Research Use or Further Manufacturing Only

Chamot Biotechnology(Shanghai) Co., Ltd. www.chamot-bio.com

Tel: 021-51880030 Mail: info@chamot-bio.com QQ: 864920491