

# CHAMOT

## Recombinant BMP-8a, Human, Animal-Free

CM069-5HP

CM069-20HP

CM069-100HP

CM069-500HP

CM069-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines



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## Recombinant BMP-8a, Human, Animal-Free

Catalog#	CM069-5HP	CM069-20HP	CM069-100HP	CM069-500HP	CM069-1000HP
Size	5 ug	20 ug	100 ug	500 ug	1 mg

### Product Specifications

<b>Background</b>	Bone Morphogenetic Protein-8 (BMP-8) is an extracellular multifunctional cytokine that is also a member of the TGF- $\beta$ family. BMP-8 can bind with TGF- $\beta$ receptor and is involved in SMAD protein signal transduction. In addition, BMP-8 participates in the downregulation of insulin secretion that lets the heat stabilize. Moreover, it participates in ossification and is essential to cartilage and hard bone development.
<b>Synonyms</b>	bone morphogenetic protein 8a, BMP-8, OP-2, Osteogenic Protein-2, BMP8
<b>Uniprot ID</b>	Q7Z5Y6
<b>Molecular Weight</b>	The protein has a calculated MW of 16.61 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).
<b>Expression System</b>	Escherichia coli
<b>Purity</b>	>98% as determined by SDS-PAGE.
<b>Activity</b>	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED <sub>50</sub> for this effect is 10-19.4 ng/mL.
<b>Endotoxin Level</b>	<0.1 EU per 1 $\mu$ g of the protein by the LAL method.
<b>Protein Sequence</b>	MAVRPLRRRQPKKSNELPQANRLPGIFDDVHGSHGRQVCRRHELYVSFQDLGWLDWVIAPQGYSAYY CEGECFPLDSCMNATNHAILQSLVHLMKPNVAVPKACCAPTKLSATSVLYDSSNNVILRKHRNMVVK ACGCH with polyhistidine tag at the C-terminus.
<b>Form</b>	The protein was lyophilized from a 0.2 $\mu$ m filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5. If you have any concerns or special requirements, please confirm with us.
<b>Application</b>	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  $\mu$ 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

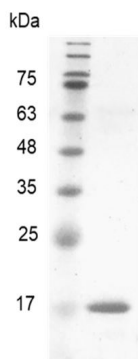
### Stability & Storage

Lyophilized protein should be stored at  $-20^{\circ}\text{C}$  for 1 year. Upon reconstitution, store at  $2^{\circ}\text{C}$  to  $8^{\circ}\text{C}$  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  $-20^{\circ}\text{C}$  or  $-80^{\circ}\text{C}$  for 3-6 months. Avoid repeated freeze/thaw cycles.

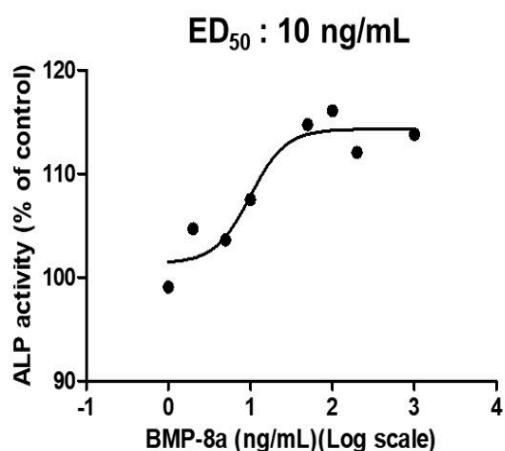
### Shipping

Blue Ice

## Scientific Data



SDS- PAGE analysis of recombinant human BMP-8a



Human BMP-8a, His Tag, E. coli induced alkaline phosphatase production by ATDC5 cells, with the ED<sub>50</sub> at 10 ng/mL.

For Research Use or Further Manufacturing Only

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