

## BAMBI

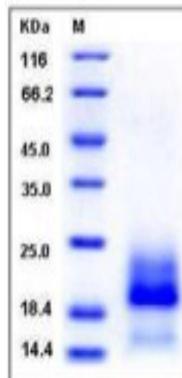
### Recombinant Human BAMBI (His Tag)

<b>Catalog No.</b>	CRH584A-His CRH584B-His	<b>Quantity:</b>	20 µg 50 µg
<b>Alternate Names:</b>	BMP and activin membrane-bound inhibitor homolog, Non-metastatic gene A protein, Putative transmembrane protein NMA		
<b>Description:</b>	BMP and activin membrane-bound inhibitor (BAMBI) is a transmembrane glycoprotein that is a pseudoreceptor of type 1 receptors. BAMBI structurally lacks intracellular serine/threonine kinase domain but with an extracellular domain and a short cytoplasmic region that share sequence similarities with type 1 receptors, whose members have functions in signal transduction in various developing and pathological processes. BAMBI competes with the type 1 receptor, a receptor of the transforming growth factor-beta (TGF-beta), through functioning as negative regulators of TGF-beta by limiting the signaling range of the TGF-beta family during early embryogenesis. The expression of BAMBI can be induced by accumulated beta-catenin and BMP. The expression level of BAMBI was found aberrantly elevated in most colorectal and hepatocellular carcinomas relative to the corresponding non-cancerous tissues. It suggests that beta-catenin and TGF-beta interfere growth arrest by inducing the expression of BAMBI, and this may contribute to colorectal and hepatocellular tumorigenesis.		
<b>UniProt ID:</b>	Q13145		
<b>Accession Number:</b>	NP_036474.1		
<b>Protein Construction:</b>	A DNA sequence encoding the human BAMBI extracellular domain (Met 1-Ala 152) was expressed, fused with a C-terminal polyhistidine tag.		
<b>Source:</b>	HEK293 Cells		
<b>Formulation:</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
<b>Molecular Weight:</b>	The secreted rhBAMBI comprises 143 aa with a predicted molecular mass of 16.1 kDa. As a result of different glycosylation, rh BAMBI migrates at ~16-23 kDa in SDS-PAGE under reducing conditions.		
<b>Purity:</b>	> 95 % as determined by SDS-PAGE.		
<b>Endotoxin Level:</b>	< 1.0 EU per µg of the protein as determined by the LAL method		
<b>Biological Activity:</b>	Testing in progress		
<b>Predicted N-terminal:</b>	Val 21		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution		

**Storage & Stability:**

Stable for up to 1 year from date of receipt at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$   
After reconstitution, store working aliquots at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ .  
**Avoid repeated freeze-thaw cycles.**

SDS-PAGE



**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

