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CALCA
Recombinant Human Calcitonin (Fc Tag)

Catalog No.	CRH707A-Fc CRH707B-Fc	**Quantity:**	20 µg 100 µg
Alternate Names:	Calcitonin, Katacalcin, Calcitonin carboxyl-terminal peptide, CCP, PDN-21		
Description:	Calcitonin is a hormone which participates in calcium and phosphorus metabolism. In mammals, the major source of calcitonin is from the parafollicular or C cells in the thyroid gland, but it is also synthesized in a wide variety of other tissues, including the lung and intestinal tract. Calcitonin has been preserved during the transition from ocean-based life to land dwellers and is phylogenetically older than parathyroid hormone. Calcitonin secretion is stimulated by increases in the serum calcium concentration preventing development of hypercalcemia. Calcitonin suppresses resorption of bone by inhibiting the activity of osteoclasts, a cell type that "digests" bone matrix, releasing calcium and phosphorus into blood. Therapeutic uses for calcitonin include treatment for hypercalcemia such as Paget disease, which is a disorder in bone remodeling. Calcitonin also appears to be a valuable aid in the management of certain types of osteoporosis.		
UniProt ID:	P01258		
Accession Number:	NP_001732.1		
Protein Construction:	A DNA sequence encoding the human calcitonin (Met1-Asn141) was expressed with the Fc region of mouse IgG1 at the C-terminus.		
Source:	HEK293 Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The rhCalcitonin/mFc consists of 350 aa with a predicted MW of 39.2 kDa. The monomer migrates at ~41.6 kDa and 31.2 kDa in SDS-PAGE under reducing conditions.		
Purity:	> 85 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	Testing in progress		
Predicted N-terminal:	Ala 26		
Reconstitution:	**Centrifuge vial prior to opening.** 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. **DO NOT VORTEX**. Allow several minutes for complete reconstitution.		
Storage & Stability:	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**		

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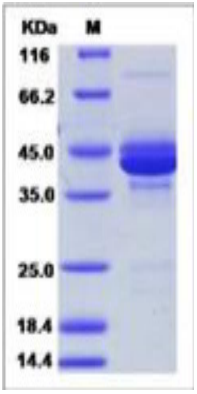
SDS-PAGE



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