

## GUCA2B

### Recombinant Human Prouroguanylin

<b>Catalog No.</b>	CRP155A CRP155B CRP155C	<b>Quantity:</b>	2 µg 10 µg 1.0 mg
<b>Alternate Names:</b>	Guanylate cyclase activator 2B, UGN, GCAP-II, GUCA2B.		
<b>Description:</b>	<p>Prouroguanylin is a 112 aa prohormone precursor of uroguanylin, the biologically active mature protein with the 16 aa peptide of prouroguanylin cleaved from its C-terminus. Uroguanylin and guanylin are peptides located in urine and the intestinal mucosa that regulated cyclic GMP production by enterocytes by activating the apical membrane receptor-quanylate cyclase. Prouroguanyline knock-out mice show impaired renal excretion of external NaCl leading to elevated blood pressure independent of the level of dietary salt intake. Prouroguanylin is the predominant molecular form found in the circulation and in biological fluids.</p> <p>Recombinant Human Prouroguanylin is an 88 aa truncated peptide with 2 additional aa residues at the N-terminus. The protein is purified by proprietary chromatographic techniques.</p>		
<b>GenelD:</b>	2981		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	10 kDa		
<b>Formulation:</b>	Sterile Filtered White lyophilized (freeze-dried) powder from 0.5 mg/ml in 50 mM Phosphate buffer, pH-7.4.		
<b>Purity:</b>	> 95.0% as determined by RP-HPLC and SDS-PAGE analyses.		
<b>Purification Method:</b>	Three-step procedure using IMAC and size exclusion chromatography before and after refolding.		
<b>Specificity:</b>	The recombinant sequence is 100% homologous to the native human sequence.		
<b>Amino Acid Sequence:</b>	GPVYIQYQGF RVQLESMKKL SDLEAQWAPS PRLQAQSLLP AVCHHPALPQ DLQPVCASQE ASSIFKTLRT IANDDCELCV NVACTGCL		
<b>Reconstitution:</b>	Reconstitute the lyophilized pellet in 0.2 ml of distilled water and allow protein to completely dissolve.		
<b>Applications:</b>	Western blotting, ELISA.		
<b>Storage &amp; Stability:</b>	Store lyophilized protein at -20°C. Aliquot the product after reconstitution and store at -80°C. Reconstituted protein can be stored at 2-4°C for a limited period of time. The lyophilized protein remains stable until the expiration date when stored at -20°C. <b>Avoid repeated freeze-thaw cycles.</b>		

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