

GUCA2A

Recombinant Human Proguanylin

Catalog No.	CRP146A CRP146B CRP146C	Quantity:	2 µg 10 µg 1.0 mg
Alternate Names:	HMW Guanylin, Guanylin precursor		
Description:	Guanylin is an endogenous activator of intestinal guanylate cyclase. It stimulates this enzyme through the same receptor binding region as the heat-stable enterotoxins. Inactive proguanylin is synthesized by gut enterochromaffin cells as a prohormone of 115 amino acids, then processed to proguanylin (aa 22-115) which circulates in the blood.		
UniProt ID:	Q02747		
Source:	<i>E. coli</i>		
Original Concentration:	0.5 mg/ml, prior to lyophilization		
Molecular Weight:	11.5 kDa (104 aa + N-terminal 10 aa His tag)		
Formulation:	Lyophilized from a 0.4µm-filtered solution in water		
Purity:	> 90% as determined by SDS-PAGE.		
Amino Acid Sequence:	<u>MKHHHHHHAS</u> VTVQDGNFSF SLESVKKDKD LQEPQEPRVG KLRNFAPIPG EPVVPILCSN PNFPEELKPL CKEPNAQEIL QRLEEIAEDP GTCEICAYAA CTGC		
Reconstitution:	Reconstitute with deionized water to the original concentration of 0.5 mg/ml. Allow sufficient time to completely dissolve. Swirl vial gently, do not vortex. Sterile filter before use in cell culture.		
Storage & Stability:	Store lyophilized protein at -20°C to -80°C for up to 1 year. Reconstituted protein can be stored at 2-8°C for 1 week or aliquot after reconstitution and store at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

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