

## Product datasheet for PA515X

### Guanylin Human Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Guanylin human recombinant protein, 0.1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	GPVTVQDGNF SFSLESVKKL KDLQEPQEPR VGKLRNFAP I PGEPVVPILC SNP NFP EELK PLCKEPNAQE ILQRLEEIAE DPGTCEICAY AACTGC
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>95%
<b>Buffer:</b>	Presentation State: Purified State: Lyophilized purified protein Buffer System: Deionized H2O
<b>Reconstitution Method:</b>	Restore with deionized water
<b>Preparation:</b>	Lyophilized purified protein
<b>Applications:</b>	Western Blot. Protocol: 1. Lauber T, Nourse A, Schulz A, Marx UC. Native and recombinant proguanylin feature identical biophysical properties and are monomeric in solution. <i>Biochemistry</i> . 2002 Dec 10; 41(49): 14602-12. 2. Rudolph JA, Hawkins JA, Cohen MB. Proguanylin secretion and the role of negative-feedback inhibition in a villous epithelial cell line. <i>Am J Physiol Gastrointest Liver Physiol</i> . 2002 Sep; 283(3): G695-702. 3. Schulz A, Marx UC, Hidaka Y, Shimonishi Y, Rosch P, Forssmann WG, Adermann K. Role of the prosequence of guanylin. <i>Protein Sci</i> . 1999 Sep; 8(9): 1850-9. 4. Lauber T, Neudecker P, Rosch P, Marx UC. Solution structure of human proguanylin: the role of a hormone prosequence. <i>J Biol Chem</i> . 2003 Jun 27; 278(26): 24118-24. Epub 2003 Apr 21.
<b>Protein Description:</b>	Total 98 AA. MW: 11 kDa (calculated). 96 AA of the recombinant human Proguanylin and two N-Terminal extra AA (highlighted).
<b>Note:</b>	Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.



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<b>Storage:</b>	Store lyophilized (preferably in a desiccator) at -20°C and in aliquots at -80°C. Reconstituted antibody can be stored at 4°C for a limited period of time; it does not show decline in activity after two weeks at 4°C. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_291031</a>
<b>Locus ID:</b>	2980
<b>UniProt ID:</b>	<a href="#">Q02747</a>
<b>Cytogenetics:</b>	1p34.2
<b>Synonyms:</b>	GCAP-I; GUCA2; STARA
<b>Summary:</b>	Endogenous activator of intestinal guanylate cyclase. It stimulates this enzyme through the same receptor binding region as the heat-stable enterotoxins.[UniProtKB/Swiss-Prot Function]
<b>Protein Families:</b>	Secreted Protein, Transmembrane

**Product images:**