

## GUCA2B Human

**Description:** Prouroguanylin Human Recombinant is 10 kDa protein containing 88 amino acid residues of the human prouroguanylin and 2 additional amino acid residues. GPVYIQYQGF RVQLESMMKKL SDLEAQWAPS PRLQAQSLLP AVCHHPALPQ DLQPVCASQE ASSIFKTLRT IANDDCELCV NVACTGCL. The Prouroguanylin is purified by proprietary chromatographic techniques.

**Catalog #:** HOPS-252

For research use only.

**Synonyms:** Guanylate cyclase activator 2B, UGN, GCAP-II, GUCA2B.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Purity:** Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Purification Method:**

Three-step procedure using IMAC and size exclusion chromatography before and after refolding.

**Specificity:**

The recombinant sequence is 100% homologous to the native human sequence.

**Formulation:**

Sterile filtered and lyophilized from 0.5 mg/ml in 50mM Phosphate buffer pH-7.4.

**Stability:**

Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated thaw-freeze cycles and store at -80°C. Reconstituted protein can be stored at 4°C for a limited period of time.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

Add 0.2 ml of deionized H<sub>2</sub>O and let the lyophilized pellet dissolve completely.

**Introduction:**

Prouroguanylin is a 112-amino-acid prohormone precursor of uroguanylin- mature biologically active 16-amino-acid peptide cleaved from its C-terminus. Guanylin binds to receptor-guanylate cyclases (CG-C) resulting in increased intracellular cGMP levels leading to CFTCR (Cystic Fibrosis Transmembrane Conductance Regulator) activation and subsequent rise in fluid and electrolyte secretion into the lumen. Prouroguanyline knock-out mice showed impaired renal excretion of external NaCl leading to elevated blood pressure independent of the level of dietary salt intake. Prouroguanylin is the predominant circulating molecular form found in circulation and in biological fluids.

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