
Product Data Sheet

Product Name: GUCA2B Human
 Cat. No.: GP21265
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Guanylate cyclase activator 2B; UGN; GCAP-II; GUCA2B.		
Amino Acid Sequence	GPVYIQYQGF RVQLESMKKL SDLEAQWAPS PRLQAQSLLP AVCHHPALPQ DLQPVCASQE ASSIFKTLRT IANDDCELCV NVACTGCL.		
Solubility	Add 0.2ml of deionized H ₂ O and let the lyophilized pellet dissolve completely.		
Formulation	Sterile filtered and lyophilized from 0.5mg/ml in 50mM Phosphate buffer pH-7.4.		

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 CFTR (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.

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.

Background

Prouroguanylin Human Recombinant is 10 kDa protein containing 88 amino acid

Caution: Product has not been fully validated for medical applications. For research use only.

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residues of the human prouroguanylin and 2 additional amino acid residues. The Prouroguanylin is purified by proprietary chromatographic techniques.

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