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## Product Data Sheet

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Product Name: TMEM27 Human  
 Cat. No.: GP24849  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Collectrin; Transmembrane protein 27; TMEM27; NX17; NX-17.		
Amino Acid Sequence	MKHHHHHHASELCQPGAENA FKVRLSIRTA LGDKAYAWDT NEEYLFKAMV AFSMRKVPNR EATEISHVLL CNVTQRVSFW FVVTDPSKNH TLPAVEVQSA IRMNKNRINN AFFLNDQTLE FLKIPSTLAP PMDPSVP.		
Solubility	It is recommended to add 0.1M Acetate buffer pH-4 to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely at 37°C . For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/ml. In higher concentrations the solubility of this antigen is limited. TMEM27 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	TMEM27 filtered (0.4 µm) and lyophilized from 0.5mg/ml in 0.05M Acetate buffer pH-4.0.		

### Introduction

Transmembrane Protein 27 (TMEM27) is a type 1 transmembrane protein which is imperative for trafficking amino acid transporters to the apical brush border of proximal tubules. TMEM27 binds to amino acid transporters and regulates their expression on the plasma membrane. The extracellular domain of TMEM27 is cleaved off the surface of beta cells.

### Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

TMEM27 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (a.a 15-141) containing 137 amino acids including a 10 a.a N-terminal His tag. The total molecular mass is 15.64kDa (calculated).

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