

## ZG16 Protein, Human, Recombinant (mFc)

### General Information

Synonyms:	JCLN1;zymogen granule protein 16;ZG16A;JCLN
Protein Construction:	A DNA sequence encoding the human ZG16 (O60844.1) (Met1-Cys167) was expressed with the Fc region of mouse IgG1 at the C-terminus. Predicted N terminal: Asn 17
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O60844.1
Molecular Weight:	43.1 kDa (predicted)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**  
It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

**Shipping:**  
In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Zymogen granule protein 16 (ZG16) is one of the most significantly down-regulated genes in colorectal cancer (CRC) tissues. Proteomic analyses of mucus have identified the lectin-like protein ZG16 as an abundant mucus component, which is significantly decreased in CRC samples compared to adjacent non-tumor tissues and associated with prognosis of patients.

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