

ZG16 Protein, Human (HEK293, His)

Cat. No.:	HY-P71037
Synonyms:	Zymogen Granule Membrane Protein 16; Zymogen Granule Protein 16; hZG16; Secretory Lectin ZG16; ZG16
Species:	Human
Source:	HEK293
Accession:	O60844 (N17-C167)
Gene ID:	653808
Molecular Weight:	Approximately 16.0 kDa

PROPERTIES

AA Sequence	<pre> N A I Q A R S S S Y S G E Y G G G G G K R F S H S G N Q L D G P I T A L R V R V N T Y Y I V G L Q V R Y G K V W S D Y V G G R N G D L E E I F L H P G E S V I Q V S G K Y K W Y L K K L L F V T D K G R Y L S F G K D S G T S F N A V P L H P N T V L R F I S G R S G S L I D A I G L H W D V Y P S S C S R C </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 1 mM EDTA, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>ZG16 protein is implicated in potentially playing a role in protein trafficking, specifically functioning as a linker molecule during granule formation within the trans-Golgi network (TGN). Its potential involvement in protein trafficking suggests a role in the dynamic process of transporting proteins within the cell. Notably, ZG16 may act as a crucial linker between the submembranous matrix on the luminal side of zymogen granule membrane (ZGM) and aggregated secretory proteins, emphasizing its significance in the intricate process of granule formation. The precise mechanisms and molecular interactions through which ZG16 orchestrates protein trafficking and facilitates granule formation merit further investigation to elucidate its functional contributions in cellular processes related to protein transport and secretion.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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