

## GABARAPL2/GATE-16 Protein, Human (His)

<b>Cat. No.:</b>	HY-P76353
<b>Synonyms:</b>	Gamma-aminobutyric acid receptor-associated protein-like 2; GEF-2; GATE-16; FLC3A
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P60520 (M1-F117)
<b>Gene ID:</b>	11345
<b>Molecular Weight:</b>	Approximately 15 kDa.

### PROPERTIES

<b>AA Sequence</b>	M K W M F K E D H S    L E H R C V E S A K    I R A K Y P D R V P    V I V E K V S G S Q I V D I D K R K Y L    V P S D I T V A Q F    M W I I R K R I Q L    P S E K A I F L F V D K T V P Q S S L T    M G Q L Y E K E K D    E D G F L Y V A Y S    G E N T F G F
<b>Biological Activity</b>	Data is not available
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from sterile 50 mM Tris, 300 mM NaCl, pH 7.4, 5% trehalose, 5% mannitol and 0.01% Tween80 .
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>GABARAPL2/GATE-16, a ubiquitin-like modifier, intricately participates in intra-Golgi traffic, modulating transport through the coupling of NSF activity and SNAREs activation. It stimulates the ATPase activity of NSF, facilitating its association with GOSR1. Beyond its Golgi-related functions, GABARAPL2/GATE-16 plays a crucial role in autophagy, contributing to mitochondrial quality control by engaging in mitophagy. Unlike LC3s involved in phagophore membrane elongation, the GABARAP/GATE-16 subfamily assumes a pivotal role in the later stages of autophagosome maturation. Operating as a monomer, GABARAPL2/GATE-16 establishes a network of interactions with key autophagy-related proteins such as ATG3, ATG7, ATG13, ULK1, TP53INP1, TP53INP2, TBC1D25, SQSTM1, BNIP3, TECPR2, PCM1, TBC1D5, TRIM5, MEFV, TRIM21, WDFY3, UBA5, GOSR1, KBTBD6, KBTBD7, and others. These interactions emphasize its versatile role in cellular processes, ranging</p>
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from Golgi dynamics to autophagy and reticulophagy regulation.

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

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