

## GABARAPL2 Protein, Human, Recombinant (His)

### General Information

Synonyms:	GATE16;ATG8;ATG8C;GEF-2;GATE-16;GEF2;GABA(A) receptor-associated protein-like 2
Protein Construction:	1-117 aa
Species:	Human
Expression Host:	E. coli
Accession:	P60520
Molecular Weight:	14.6 kDa (predicted)
AA Sequence:	MKWMFKEDHSLEHRCVESAKIRAKYPDRVPVIVEKVGSGSQIVDIDKRKYLVPDITVAQFMWIIRKRIQLPSEK AIFLFVDKTPVQSSLTMGQLYEKEKDEDGFLYVAYSAGENTFGF

### 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:	Please contact us for more information.
Formulation:	Tris/PBS-based buffer

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### 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

GATE-16, also known as ATG8, belongs to the MAP1 LC3 family. It is expressed at high levels in the brain, heart, prostate, ovary, spleen and skeletal muscle. GATE-16 is expressed at very low levels in lung, thymus and small intestine. GATE-16 is involved in intra-Golgi traffic. It modulates intra-Golgi transport through coupling between NSF activity and SNAREs activation. It first stimulates the ATPase activity of NSF which in turn stimulates the

association with GOSR1.

#### Reference

Ewing Rob M, et al. (2007) Large-scale mapping of human protein-protein interactions by mass spectrometry. *Mol Syst Biol.* 3(1):89.

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Xin Y, et al. (2001) Cloning, expression patterns, and chromosome localization of three human and two mouse homologues of GABA(A) receptor-associated protein. *Genomics.* 74 (3):408-13.

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