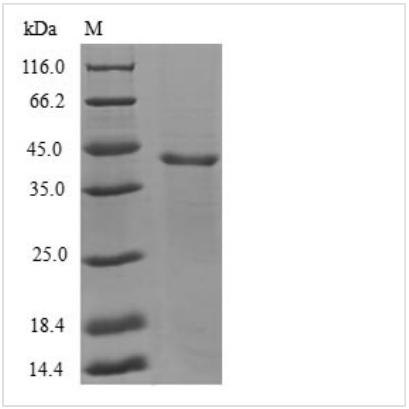
Recombinant Human Gamma-aminobutyric acid receptor-associated protein-like 1 (GABARAPL1)

Product Code	CSB-EP861986HU
Relevance	Ubiquitin-like modifier that increases cell-surface expression of kappa-type opioid receptor through facilitating anterograde intracellular trafficking of the receptor. Involved in formation of autophagosomal vacuoles. Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation.
Abbreviation	GABARAPL1
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9H0R8
Alias	Early estrogen-regulated protein GABA(A) receptor-associated protein-like 1 Glandular epithelial cell protein 1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MKFQYKEDHPFEYRKKEGEKIRKKYPDRVPVIVEKAPKARVPDLDKRKYLVPS DLTVGQFYFLIRKRIHLRPEDALFFFVNNTIPPTSATMGQLYEDNHEEDYFLYVA YSDESVYG
Lead Time	3-7 business days
Research Area	Neuroscience
Source	E.coli
Gene Names	GABARAPL1
Protein Names	Recommended name: Gamma-aminobutyric acid receptor-associated protein-like 1 Alternative name(s): Early estrogen-regulated protein GABA(A) receptor-associated protein-like 1 Glandular epithelial cell protein 1 Short name= GEC-1
Expression Region	1-117aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	40.9kDa
Protein Description	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Synthesizing the recombinant Human GABARAPL1 protein generally involves integrating the DNA fragment that encodes the Human GABARAPL1 protein (1-117aa) into a plasmid, introducing the recombinant plasmid into e.coli cells, followed by the selection and culturing of positive e.coli cells, induction of protein expression, and subsequent cell lysis. A N-terminal GST tag is fused to the protein. The protein is purified through affinity purification, and SDS-PAGE analysis is conducted to confirm the presence of the protein and determine its purity. The protein's purity surpasses 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.