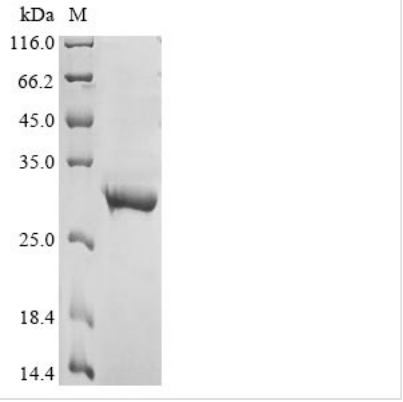
Recombinant Human Gamma-aminobutyric acid receptor subunit beta-2 (GABRB2), partial

Product Code	CSB-EP009147HU
Abbreviation	Recombinant Human GABRB2 protein, partial
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.	P47870
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	SVNDPSNMSLVKETVDRLLKGYDIRLRPDFGGPPVAVGMNIDIASIDMVSEVN MDYTLTMYFQQAWRDKRLSYNVIPLNLTLDNRVADQLWVPDTYFLNDKKSFV HGVTVKNRMIRLHPDGTVLYGLRITTTAACMMDLRRYPLDEQNCTLEIESYGY TTDDIEFYWRGDDNAVTGVTKIELPQFSIVDYKLITKKVVFSTGSYPRLSLSFKL KRNIGY
Research Area	More proteins and peptides
Source	E.coli
Target Names	GABRB2
Expression Region	26-244aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	29.3 kDa
Protein Length	Partial
Image	



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

Description

The region for expressing recombinant Human GABRB2 contains amino acids 26-244. The calculated molecular weight for this GABRB2 protein is 29.3 kDa. The GABRB2 protein was expressed in e.coli. The GABRB2 gene fragment has been modified by fusing the N-terminal 6xHis tag, providing convenience in detecting and purifying the recombinant GABRB2 protein during the following stages.

The human Gamma-aminobutyric acid receptor subunit beta-2 (GABRB2) is a component of the GABAA receptor, a ligand-gated ion channel that plays a crucial role in inhibitory neurotransmission within the central nervous system. GABRB2 is involved in forming functional GABAergic receptors. Activation of these receptors by the neurotransmitter gamma-aminobutyric acid (GABA) leads to an influx of chloride ions, resulting in membrane hyperpolarization and neuronal inhibition. GABRB2's presence in the GABAA receptor complex contributes to the regulation of neuronal excitability and is implicated in various neurological and psychiatric disorders, making it a target of interest in pharmacological research and drug development.

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.

Shelf Life

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.