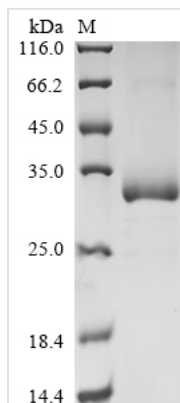




Recombinant Human Carbonic anhydrase 5A, mitochondrial (CA5A)

Product Code	CSB-MP004373HU
Abbreviation	Recombinant Human CA5A protein
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.	P35218
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 85% as determined by SDS-PAGE.
Sequence	CAWQTSNNTLHPLWTPVSVPGGTRQSPINIQWRDSVYDPQLKPLRVSYEAA SCLYIWNTGYLFQVEFDDATEASGISGGPLENHYRLKQFHFHWGAVNEGGSE HTVDGHAYPAELHLVHWNVSKYQNYKEAVVGENGLAVIGVFLKLGAAHHQTLQ RLVDILPEIKHKDARAAMRPFDPSTLLPTCWDYWTYAGSLTTPPLTESVTWIIQ KEPVEVAPSQLSAFRTLFSALGEEEEKMMVNRYRPLQPLMNRKVVASFQATN EGTRS
Research Area	Metabolism
Source	Mammalian cell
Target Names	CA5A
Expression Region	39-305aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag-Free
Mol. Weight	30.6 kDa
Protein Length	Full Length of Mature Protein
Image	



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

Description

The expression of recombinant Human CA5A protein involves transfecting mammalian cells with a DNA expression vector carrying the gene for the protein of interest (39-305aa). After transfection, the cells are cultured to produce the desired protein. The recombinant Human CA5A protein is collected and purified from the cell lysate through affinity purification, attaining a purity greater than 85%, as determined by SDS-PAGE.

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.