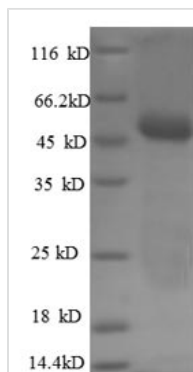




Recombinant Human Carbonic anhydrase 12 (CA12), partial

Product Code	CSB-EP004367HU
Relevance	Reversible hydration of carbon dioxide.
Abbreviation	Recombinant Human CA12 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.	O43570
Alias	Carbonate dehydratase XII;Carbonic anhydrase XII ;CA-XIITumor antigen HOM-R;CC-3.1.3
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	APVNGSKWTFYFGPDGENSWSKKYPSCGGLLQSPIDLHSDILQYDASLTPLFQ GYNLSANKQFLLTNNGHSVKLNLPSDMHIQGLQSRYSATQLHLHWGNPNDPH GSEHTVSGQHFAAELHIVHYNSDLYPDASTASNKSEGLAVLAVLIEMGSFNPS YDKIFSHLQHVKYKGQEAFFVPGFNIEELLPERTAEYYRYRGSLLTPPCNPTVL WTVFRNPVQISQEQLLALETALYCTHMDDPSPREMINNFRQVQKFDERLVYTS FSQVQVCTAAGLS
Research Area	Cancer
Source	E.coli
Target Names	CA12
Expression Region	25-301aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	47.1kDa
Protein Length	Extracellular Domain
Image	



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

Description

The gene encoding the Human CA12 protein (25-301aa) is incorporated into a plasmid vector to generate recombinant plasmid, which is then introduced into e.coli cells. The e.coli cells containing the recombinant plasmid are selected and cultured under conditions that stimulate the expression of the gene of interest. A N-terminal 6xHis-SUMO tag is attached to the protein. After expression, affinity purification is employed to isolate and purify the recombinant Human CA12 protein from the cell lysate. Denaturing SDS-PAGE is utilized to resolve the resulting recombinant Human CA12 protein, revealing a purity level exceeding 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.

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.