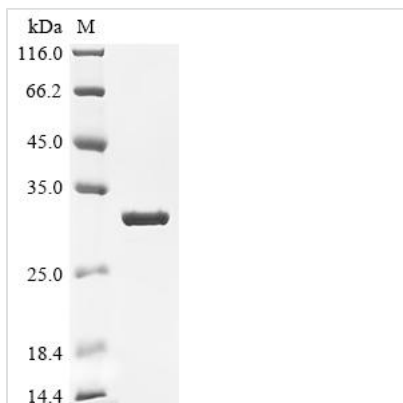


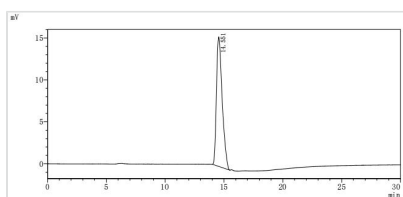


Recombinant Human Carbonic anhydrase 2 (CA2) (Active)

Product Code	CSB-MP004370HU(A4)
Abbreviation	Recombinant Human CA2 protein (Active)
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.	P00918
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its esterase activity. The specific activity is >2600 pmol/min/µg.
Purity	≥ 95% as determined by SDS-PAGE. ≥ 95% as determined by SEC-HPLC.
Sequence	MSHHWGYGKHNGPEHWHKDFPIAKGERQSPVDIDHTAKYDPSLKPLSVSYD QATSLRILNNGHAFNVEFDDSDQKAVLKGGLDGTYRLIQHFHWGSLDGQG SEHTVDKCKYAAELHLVHWNTKYGDFGKAVQQPDGLAVLGIFLKVGSAPGL QKVVDVLDSIKTKGKSADFTNFDPRGILLPESLDYWTYPGSLTTPPLECVTWIV LKEPISVSSEQVLKFRKLNFNNGEGEPEELMVDNWRPAQPLKNRQIKASFK
Source	Mammalian cell
Target Names	CA2
Expression Region	1-260aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	30.7kDa
Protein Length	Full Length
Image	



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



The purity of CA2 was greater than 95% as determined by SEC-HPLC

Enzyme	Human CA2 (CSB-MP004370HU(A4))	0.0625µg/well
Substrate	4-NPA (sigma, N8130)	1mM
Reaction system	/	100µl
Reaction conditions	37°C and 5min in dark	/
Buffer	12.5 mM Tris, 75 mM NaCl, pH 7.5	/
Enzyme activity unit (U/mg)	>2600 pmol/min/µg	/

Activity

Measured by its esterase activity. The specific activity is >2600 pmol/min/µg.

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.