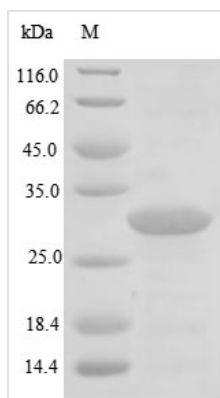




Recombinant Helicobacter pylori Urease subunit alpha (ureA)

Product Code	CSB-EP320452HUV
Abbreviation	Recombinant Helicobacter pylori ureA 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.	P14916
Product Type	Recombinant Protein
Immunogen Species	Helicobacter pylori (strain ATCC 700392 / 26695) (Campylobacter pylori)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MKLTPKELDKLMLHYAGELAKKRKEKGIKLNYVEAVALISAHIMEEARAGKKTA AELMQEGRTLKPDVMDGVASMIHEVGIEAMFPDGTKLVTVHTPIEANGKLV PGELFLKNEDITINEGKKAVSVKVNVDGDRPVQIGSHFHFEEVNRCLDFDREKT FGKRLDIASGTAVRFEPGEEKSVELIDIGGNRRIFGFNALVDRQADNESKKIALH RAKERGFHGAKSDDNYVKTIKE
Research Area	Others
Source	E.coli
Target Names	ureA
Protein Names	Recommended name: Urease subunit alpha EC= 3.5.1.5 Alternative name(s): Urea amidohydrolase subunit alpha
Expression Region	1-238aa
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	30.5 kDa
Protein Length	Full Length

Image



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

Description

The synthesis of Recombinant H.pylori ureA protein began with the isolation of ureA gene from the native genome. The next step was to amplify the ureA gene by inserting the ureA gene into an expression vector and then introducing the vector into the selected host cell, E.coli. Significant amounts of recombinant H.pylori ureA protein were produced by the host only when expression genes were added. For the purpose of protein purification, the vector contains N-terminal 6xHis tag to the ureA DNA sequence. The purity of this protein is 85%+ determined by SDS-PAGE.

ureA (also known as hpuA) is a gene encoding a protein named urease subunit alpha (ureA) in Helicobacter pylori. The protein encoded by this gene is also known as urea amidohydrolase subunit alpha and belongs to urease gamma subunit family and urease beta subunit family. Its orthologous protein is known as the gamma/beta subunit (UreAB) in most other bacteria. This protein plays an important role in urea catabolic process.

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.