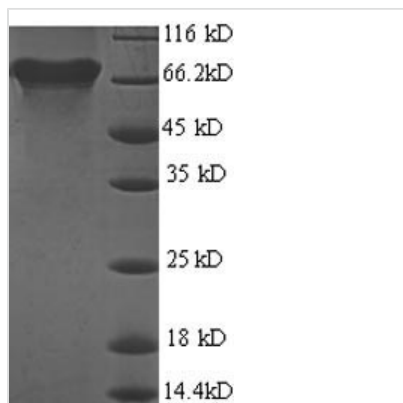




# Recombinant Helicobacter pylori Urease subunit beta (ureB)

<b>Product Code</b>	CSB-EP300910HUV
<b>Relevance</b>	Ammonia produced by ureolysis increases the gastric pH thereby providing an environment permissive for colonization of the stomach.
<b>Abbreviation</b>	Recombinant Helicobacter pylori ureB protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	P69996
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Helicobacter pylori (strain ATCC 700392 / 26695) (Campylobacter pylori)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MKKISRKEYVSMYGPTTGDKVRLGDTDLIAEVEHDYTIYGEELKFGGGKTLRE GMSQSNNPSKEELDLITNALIVDYTGIIYKADIGIKDGIAGIGKGGNKDMQDGV KNNLSVGPATEALAGEGLIVTAGGIDTHIHFIISPQQIPTAFASGVTTMIGGGTGP ADGTNATTITPGRRLKRWMLRAAEEYSMNLGFLAKGNASNDASLADQIEAGAI GFKIHEDWGTTTPSAINHALDVADKYDVQVAIHDTLNEAGCVEDTMAAIAGRT MHTFHTEGAGGGHAPDIIKVAGEHNILPASTNPTIPFTVNTEAEHMDMLMVCH HLDKSIKEDVQFADSRIRPQTIAAEDTLHDMGIFSITSSDSQAMGRVGEVITRT WQTADKNKKEFGRLKEEKGDNDNFRIKRYLSKYTINPAIAHGISEYVGSVEVGK VADLVWSPAFFGVKPNMIIKGGFIALSQMGDANASIPTPQPVYYREMFAHHG KAKYDANITFVSQAAYDKGIKEELGLERQVLPVKNCRNITKKDMQFNDTTAHIE VNPETYHVFVDGKEVTSKPANKVSLAQLFSIF
<b>Source</b>	E.coli
<b>Target Names</b>	ureB
<b>Expression Region</b>	1-569aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	65.7kDa
<b>Protein Length</b>	Full Length
<b>Image</b>	



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

## Description

The recombinant *H. pylori* ureB protein is encoded by the gene of ureB (1-569aa). The gene of ureB was cloned in a system (*E. coli*) that supported the expression of ureB and translation of messenger RNA. Modification of ureB by recombinant DNA technology could lead to the expression of the target protein. The protein was fused with N-terminal 6xHis tag in the production. The purity is 90% determined by SDS-PAGE.

UreB is a protein coding gene that encodes Urease subunit beta. According to some studies, UreB may have the following features.

The ureA and ureB genes encoding *H. pylori* urease are transcribed and translated in *E. coli*, and these genes alone are sufficient to synthesize and assemble the bulk-sized enzyme. The basic properties of *H. pylori* urease activity on colonization indicate that *H. pylori* urease is an excellent reporter of gene expression in *H. pylori*. Recombinant *L. lactis* expressing UreB-IL-2 has the potential to be used as an edible vaccine for the control of *Helicobacter pylori* infection. UreB transgenic carrots have the potential to be used as an edible vaccine for the control of *Helicobacter pylori*. UreB enhances the stability of UreC against proteolysis.

## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

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