



# Recombinant Human Claudin-6 (CLDN6)-VLPs (Active)

<b>Product Code</b>	CSB-MP005508HU(A4)
<b>Abbreviation</b>	Recombinant Human CLDN6 protein-VLPs (Active)
<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>	P56747
<b>Form</b>	Lyophilized powder
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	<p>① Measured by its binding ability in a functional ELISA. Immobilized Human CLDN6 at 2 µg/mL can bind Anti-CLDN6/9 recombinant antibody(CSB-RA005508MA1HU). The EC50 is 1.334-1.504 ng/mL.The VLPs (CSB-MP3838) is negative control.</p> <p>② Measured by its binding ability in a functional ELISA. Immobilized Human CLDN6 at 2 µg/mL can bind Anti-CLDN6 recombinant antibody(CSB-RA005508MA2HU). The EC50 is 2.920-3.812 ng/mL.The VLPs (CSB-MP3838) is negative control.</p> <p>③ Measured by its binding ability in a functional ELISA. Immobilized Human CLDN6 at 2 µg/mL can bind Anti-CLDN6/9 recombinant antibody(CSB-RA005508MA3HU). The EC50 is 3.482-4.097 ng/mL.The VLPs (CSB-MP3838) is negative control.</p> <p>④ Measured by its binding ability in a functional ELISA. Immobilized Human CLDN6 at 2 µg/mL can bind Anti-CLDN6 recombinant antibody(CSB-RA005508MA4HU). The EC50 is 2.866-3.739 ng/mL.The VLPs (CSB-MP3838) is negative control.</p>
<b>Purity</b>	Greater than 95% as determined by SEC-HPLC.
<b>Sequence</b>	MASAGMQILGVVLTLLGWVNGLVSCALPMWKVTAFIGNSIVVAQVVWEGLWM SCVVQSTGQMCKVYDLSLLALPQDLQAARALCVIALLVALFGLLVYLAGAKCT TCVEEKDSKARLVLTSGIVFVISGVLTLIPVCWTAHAIIRDFYNPLVAEAQKREL GASLYLGWAASGLLLLGGLLCCTCPSGGSQGPHMARYSTSAPAIRGPS EYPTKNYV
<b>Source</b>	Mammalian cell
<b>Target Names</b>	CLDN6
<b>Expression Region</b>	1-220aa
<b>Notes</b>	"The VLPs are expressed from human 293 cells (HEK293).Mix the sample



gently by repeatedly pipetting it up and down. Do not vortex. Repeated freezing and thawing is not recommended. Store the protein at -20°C/-80°C upon receiving it, and ensure to avoid repeated freezing and thawing, otherwise, it will affect the protein activity. The immunization strategy should be optimized (antigen dose, regimen and adjuvant)."

**Tag Info**

C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions)

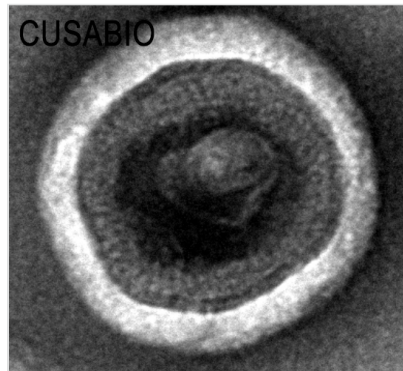
**Mol. Weight**

24.8 kDa

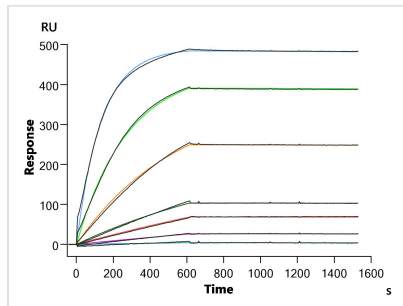
**Protein Length**

Full Length

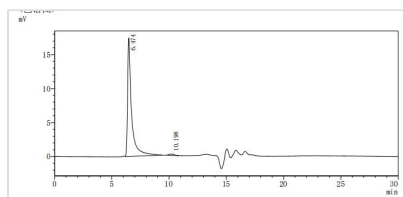
**Image**



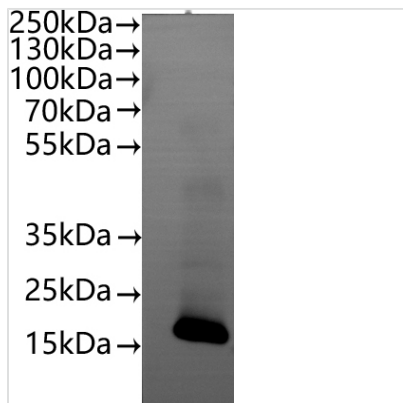
The presence of VLP-like structures was confirmed by TEM



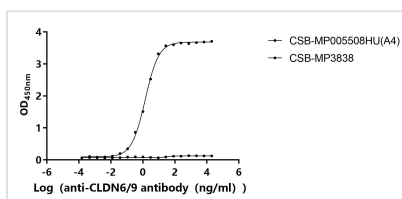
Human CLDN6 Monoclonal Antibody (CSB-RA005508MA1HU) captured on Protein A Chip can bind Human CLDN6 Full Length VLP Protein with an affinity constant of 6.58 nM as detected by MetaSPR Assay (WeSPR™ 200).



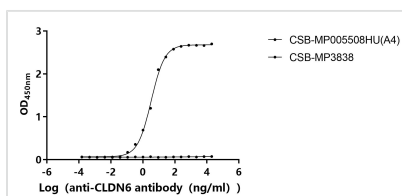
The purity of VLPs was greater than 95% as determined by SEC-HPLC



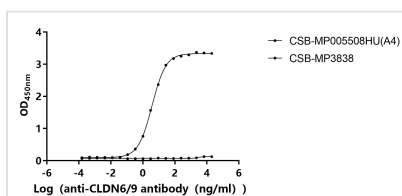
CSB-MP005508HU(A4) is detected by Mouse anti-6\*His monoclonal antibody.


**Activity**

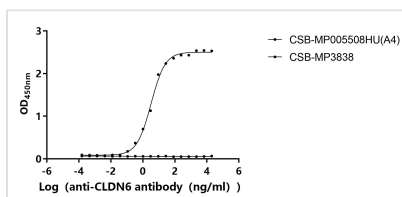
Measured by its binding ability in a functional ELISA. Immobilized Human CLDN6 at 2 µg/ml can bind Anti-CLDN6/9 recombinant antibody(CSB-RA005508MA1HU). The EC<sub>50</sub> is 1.334-1.504 ng/mL. The VLPs (CSB-MP3838) is negative control.


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**Endotoxin**

Less than 1.0 EU/ug as determined by LAL method.

**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.