



# Recombinant Human Opioid-binding protein/cell adhesion molecule (OPCML)

<b>Product Code</b>	CSB-MP621799HU
<b>Abbreviation</b>	OPCML
<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>	Q14982
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	GVP VRSGDATFPK AMDNVTVRQG ESATLRCTID DRVTRVAWLN RSTILYAGND KWSIDPRVII LVNTPQTQYSI MIQNVDVYDE GPYTCSVQTD NHPKTSRVHL IVQVPPQIMN ISSDITVNEG SSVTLLCLAI GRPEPTVTWR HLSVKEGQGF VSEDEYLEIS DIKRDQSGEY ECSALNDVAA PDVRKVKITV NYPPYISKAK NTGVS VGQKG ILSCEASAVP MAEFQWFKEE TRLATGLDGM RIENKGRMST LTFNVSEKD YGNYTCVATN KLGNTNASIT LYGPGAVIDG VN
<b>Source</b>	Mammalian cell
<b>Target Names</b>	OPCML
<b>Protein Names</b>	Recommended name: Opioid-binding protein/cell adhesion molecule Short name= OBCAM Short name= OPCML Short name= Opioid-binding cell adhesion molecule Alternative name(s): IgLON family member 1
<b>Expression Region</b>	28-322
<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>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This gene encodes a member of the IgLON subfamily in the immunoglobulin protein superfamily. The encoded protein is localized in the plasma membrane and may have an accessory role in opioid receptor function. This gene has an ortholog in rat and bovine. The opioid binding-cell adhesion molecule encoded by the rat gene binds opioid alkaloids in the presence of acidic lipids, exhibits selectivity for mu ligands and acts as a GPI-anchored protein. Since the encoded protein is highly conserved in species during evolution, it may have a fundamental role in mammalian systems. Two transcript variants encoding different isoforms have been found for this gene.

**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.