

OBCAM/OPCML Protein, Human (HEK293, His)

Cat. No.:	HY-P76528
Synonyms:	Opioid-binding protein/cell adhesion molecule; OBCAM; OPCML; IGLON1
Species:	Human
Source:	HEK293
Accession:	Q14982 (G28-N322)
Gene ID:	4978
Molecular Weight:	Approximately 45-60 kDa due to the glycosylation

PROPERTIES

AA Sequence	<pre> G V P V R S G D A T F P K A M D N V T V R Q G E S A T L R C T I D D R V T R V A W L N R S T I L Y A G N D K W S I D P R V I I L V N T P T Q Y S I M I Q N V D V Y D E G P Y T C S V Q T D N H P K T S R V H L I V Q V P P Q I M N I S S D I T V N E G S S V T L L C L A I G R P E P T V T W R H L S V K E G Q G F V S E D E Y L E I S D I K R D Q S G E Y E C S A L N D V A A P D V R K V K I T V N Y P P Y I S K A K N T G V S V G Q K G I L S C E A S A V P M A E F Q W F K E E T R L A T G L D G M R I E N K G R M S T L T F F N V S E K D Y G N Y T C V A T N K L G N T N A S I T L Y G P G A V I D G V N </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human OBCAM at 1 µg/mL (100 µL/well) can bind biotinylated human LSAMP. The ED ₅₀ for this effect is 0.9464 µg/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The OBCAM/OPCML Protein demonstrates a unique ability to bind opioids, particularly in the presence of acidic lipids,
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suggesting a potential role in cellular interactions and signaling related to opioid binding. This characteristic implies that OBCAM/OPCML may be involved in cell-contact processes where opioids and acidic lipids are present. The protein's dual affinity for opioids and acidic lipids underscores its potential significance in modulating cellular responses to external stimuli and highlights its potential contribution to opioid-related signaling pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA