

# Human OSCAR Protein

Cat. No. OAR-HM201



## Description

<b>Source</b>	Recombinant Human OSCAR Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Asp19-Ser229.
<b>Accession</b>	Q8IYS5-1
<b>Molecular Weight</b>	The protein has a predicted MW of 49.8 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

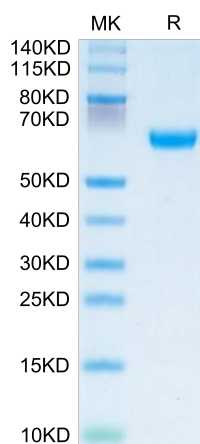
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Osteoclast-associated receptor (OSCAR) is a co-stimulatory receptor in osteoclastogenesis. Synovial tissues from active rheumatoid arthritis (RA) patients express higher levels of OSCAR compared with osteoarthritic and normal patients. OSCAR and tartrate-resistant acid phosphatase (TRAP) expression levels did not differ between the cartilage pannus junction (CPJ) and non-CPJ regions in active RA.

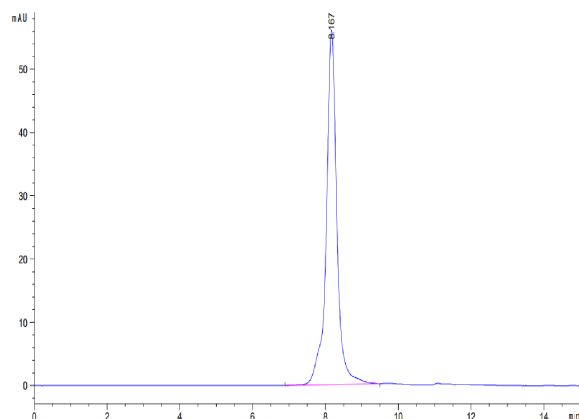
## Assay Data

### Bis-Tris PAGE



Human OSCAR on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



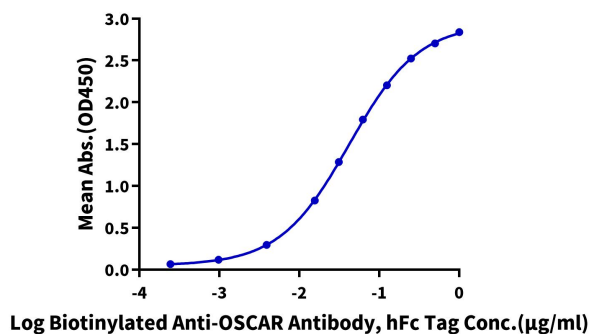
The purity of Human OSCAR is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human OSCAR, hFc Tag ELISA**

0.1µg Human OSCAR, hFc Tag Per Well



Immobilized Human OSCAR, hFc Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-OSCAR Antibody, hFc Tag with the EC50 42.0ng/ml determined by ELISA.