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## Product Data Sheet

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Product Name: OSCAR Human  
 Cat. No.: GP24108  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PIGR3; Osteoclast-associated immunoglobulin-like receptor; hOSCAR; Polymeric immunoglobulin receptor 3; OSCAR; PIgR-3; PIgR3; Poly-Ig receptor 3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSDITPSVA IIVPPASYHP KPWLGAQPAT VVTPGVNVT LRCRAPQPAWR FGLFKPGEIA PLLFRDVSSE LAEFFLEEV TPAQGGIYRCC YRRPDWGPGV WSQPSDVLEL LVTEELPRPS LVALPGPVVG PGANVSLRCA GRLRNMSFVL YREGVAAPLQ YRHSAPQWAD FTLLGARAPG TYSCYYHTPS APYVLSQRSE VLVISWEGEG PEARPASSAP GMQAPGPPPS DPGAQAPSL SFRPRGLVLQ PLLPQTQDSW DPAPPPSDPG V.		
Formulation	OSCAR protein solution (0.25mg/ml) contains 20mM Tris-HCl buffer, (pH 8.0), 0.4M Urea and 10% glycerol.		

### Introduction

Osteoclasts are multinucleated cells that resorb bone and are essential for bone homeostasis. OSCAR plays crucial roles in the regulation of the innate and adaptive immune responses. Unlike the other LRC members, OSCAR expression is found specifically in preosteoclasts or mature osteoclasts. OSCAR is an important bone-specific regulator of osteoclast differentiation. Multiple alternative splicing transcript variants encodes different isoforms have been found for this gene.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

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

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OSCAR Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 291 amino acids (19-286 a.a.) and having a molecular mass of 31kDa. OSCAR is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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