

## OCIL/CLEC2D Protein, Human (HEK293, Fc-Avi)

<b>Cat. No.:</b>	HY-P77901
<b>Synonyms:</b>	C-type lectin domain family 2 member D; Lectin-like NK cell receptor; Lectin-like transcript 1; LLT-1; CLAX; LLT1; OCIL; CLEC2D
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q9UHP7-1 (R60-V191)
<b>Gene ID:</b>	29121
<b>Molecular Weight:</b>	68-78 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>R A N C H Q E P S V    C L Q A A C P E S W    I G F Q R K C F Y F    S D D T K N W T S S</p> <p>Q R F C D S Q D A D    L A Q V E S F Q E L    N F L L R Y K G P S    D H W I G L S R E Q</p> <p>G Q P W K W I N G T    E W T R Q F P I L G    A G E C A Y L N D K    G A S S A R H Y T E</p> <p>R K W I C S K S D I    H V</p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 $\mu$ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
<b>Endotoxin Level</b>	<1 EU/ $\mu$ g, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>OCIL/CLEC2D Protein serves as a receptor for KLRB1, providing protection to target cells against natural killer cell-mediated lysis. Not only does it inhibit osteoclast formation and bone resorption, but it also modulates the release of interferon-gamma, showcasing its regulatory role in immune responses and bone-related processes. Furthermore, OCIL/CLEC2D exhibits the ability to bind high molecular weight sulfated glycosaminoglycans, suggesting its involvement in interactions with extracellular components. Structurally, it exists as a homodimer with disulfide linkages, emphasizing the significance of its oligomeric form in mediating cellular functions associated with immune protection and bone homeostasis.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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