

## OCIL/CLEC2D Protein, Rat (HEK293, Fc)

<b>Cat. No.:</b>	HY-P76831
<b>Synonyms:</b>	C-type lectin domain family 2 member D5; Osteoclast inhibitory lectin; Ocil; Clec2d5
<b>Species:</b>	Rat
<b>Source:</b>	HEK293
<b>Accession:</b>	Q925N7 (K98-L233)
<b>Gene ID:</b>	113937
<b>Molecular Weight:</b>	Approximately 43-55 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           K K T A Q I S T I N    T Y A A C P R N W I    G V G N K C F Y F N    E I P S N W T L S Q            T L C K E Q G A E L    A R F D T E E E L N    F L R R Y K G S S G    Y W F G L H R E S S            A H P W K W T D N T    E Y N N S V S I G G    D E K H G F L S D N    G F S S G R G Y I V            R K S I C R K P N S    Y T S Q C L         </p>
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized Human CD161, at 10µg/mL (100 µL/well) can bind Rat OCIL. The ED <sub>50</sub> for this effect is 3.446 µg/mL.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<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, also known as Osteoclast inhibitory lectin (OCIL) or C-type lectin domain family 2 member D (CLEC2D), functions as a lectin-type receptor that is located on the cell surface. Lectins are proteins that bind specifically to carbohydrates, and by operating as a lectin-type receptor, OCIL/CLEC2D is involved in carbohydrate recognition and signaling processes. Based on its classification as a lectin-type receptor, it is likely involved in mediating cellular interactions, adhesion, or immune responses through the recognition of specific carbohydrate molecules. Further</p>
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investigation is needed to fully understand the biological significance and molecular mechanisms of OCIL/CLEC2D protein.

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

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