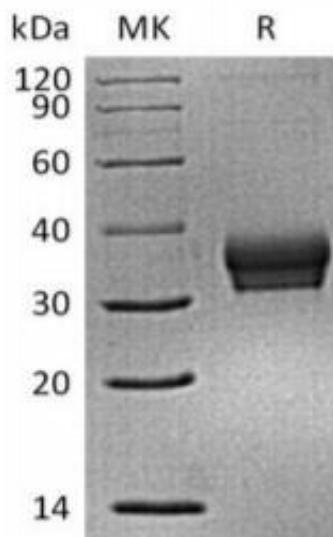


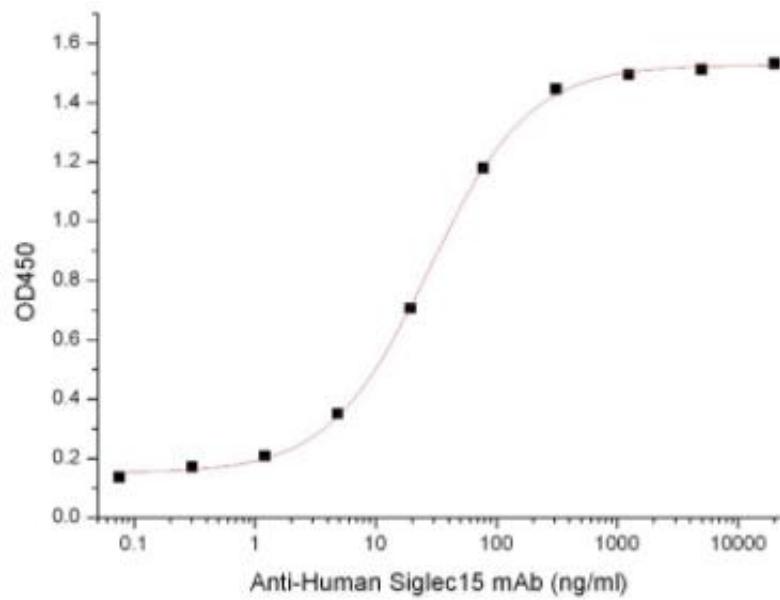
Recombinant Mouse Siglec15 protein, C-His Tag

Product Information

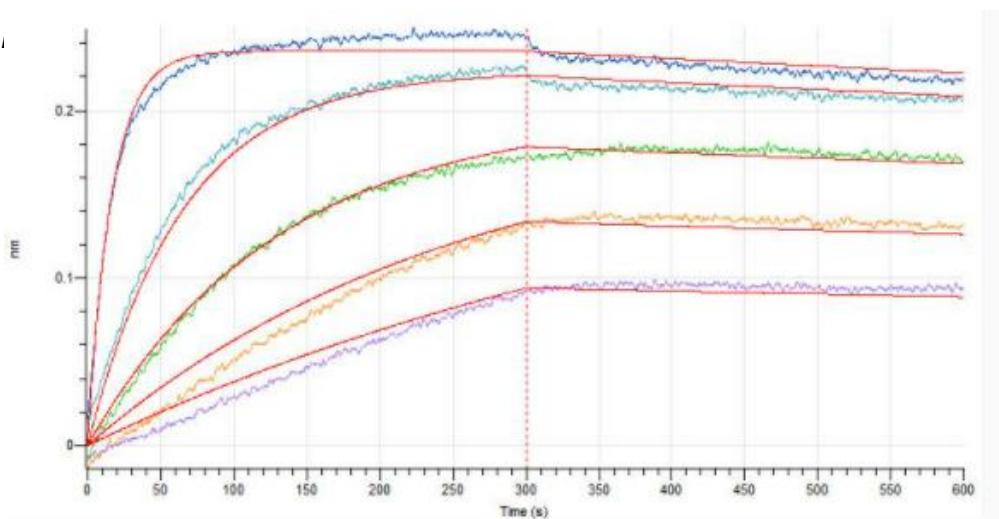
Cat	IMP-586
Official Symbol	<i>Siglec15</i>
Product Overview	<i>Recombinant Mouse Siglec15(NP_001094508.1)(Arg24-Thr262) is expressed in HEK293, fused with a 6His tag at the C-terminus.</i>
Description	<i>Human Siglec-15 is a transmembrane glycoprotein in the Siglec family. Sigecls are type I transmembrane proteins where the NH3+-terminus is in the extracellular space and the COO?-terminus is cytosolic. Each Siglec contains an N-terminal V-type immunoglobulin domain (Ig domain) which acts as the binding receptor for sialic acid. These lectins are placed into the group of I-type lectins because the lectin domain is an immunoglobulin fold. All Sigecls are extended from the cell surface by C2-type Ig domains which have no binding activity. Sigecls differ in the number of these C2-type domains. Human Siglec-15 consists of a 244 amino acid (aa) extracellular domain (ECD) with two Ig-like domains, a 21 aa transmembrane segment, and a 44 aa cytoplasmic domain. Siglec-15 function is important for osteoclast formation and TRANCE/RANK Ligand signaling in osteoclasts</i>
Expression System	HEK293
Species	Mouse
Tag	C-His Tag
Form	<i>Lyophilized from a 0.2 µm filtered solution of PBS, 150mMnacl, 5%Thehalose, 0.3%chaps, Ph7.4.</i>
Molecular Mass	<i>30-40kDa, reducing conditions.</i>
Protein length	Arg24-Thr262
Endotoxin	<i>Less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.</i>
Purity	<i>Greater than 95% as determined by reducing SDS-PAGE.</i>
Storage	<i>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</i>
Reconstitution	<i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</i>
SDS-PAGE	



Bioactivity-ELISA 1



Immobilized Mouse Siglec-15-His at 2 μ g/ml (100 μ l/well) can bind Anti-Human Siglec15 mAb. The ED₅₀ of Anti-Human Siglec15 mAb is 27.7 ng/ml.

Bioactivity-BLI

Loaded Anti-Human Siglec15 mAb-mFc on AMQ Biosensor, can bind Mouse Siglec-15-His with an affinity constant of 0.33 nM as determined in BLI assay.