

## Siglec-15 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70744
Synonyms:	Sialic acid-binding Ig-like lectin 15; Siglec-15; CD33 antigen-like 3; CD33L3
Species:	Mouse
Source:	HEK293
Accession:	A7E1W8 (R24-T262)
Gene ID:	620235
Molecular Weight:	30-40 kDa

### PROPERTIES

AA Sequence	<pre> RRDASGDL LN   TEAHSAPAQR   WSMQVPAEVN   AEAGDAAVLP CTFTHPHRHY   DGPLTAIWRS   GEPYAGPQVF   RCTAAPGSEL CQTALSLHGR   FRL LGNPRRN   DLSLRVERLA   LADSGRYFCR VEFTGDAHDR   YESRHGVRLR   VTAAAPRIVN   ISVLPGPAHA FRALCTAEGE   PPPALAWSGP   APGNSAALQ   GQGHGYQVTA ELPALTRDGR   YTCTAANSLG   RAEASVYLFR   FHGAPGTST           </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 150 mM NaCl, 5% Thehalose, 0.3% Chaps, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	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).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>Siglec-15, a Siglec family member and type-1 transmembrane protein, is constitutively expressed in osteoclasts, macrophages and dendritic cells. Siglec-15 acts upstream of or within regulation of actin cytoskeleton organization. Siglec-15 deficiency can promote bone formation and reduce bone resorption, indicating that Siglec-15 plays a pivotal role in the development and differentiation of osteoclastogenesis and may serve as a target to inhibit bone resorption and promote bone remodeling that increases bone mass. Siglec-15 is a predominantly macrophage-mediated suppressor of T cell responses. In tumors, Siglec-15 is negatively regulated by IFN-γ, thus influencing effector T cell-mediated antitumor</p>
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immunity. Genetic ablation or antibody blockade of Siglec-15 amplifies anti-tumor immunity in the TME and inhibits tumor growth in some mouse models. Siglec-15 as a potential target for normalization cancer immunotherapy<sup>[1][2][3][4]</sup>.

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

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