Siglec-15 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P70743
Synonyms:	Sialic acid-binding Ig-like lectin 15; Siglec-15; CD33 antigen-like 3; CD33L3
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5UY47 (F20-T263)
Gene ID:	/
Molecular Weight:	30-40 kDa

PROPERTIES

AA Sequence	F V R T K I D T T E N L L N T E V H S S P A Q R W S M Q V P A E V S A A A G D A A V L P C T F T H P H R H Y D G P L T A I W R A G E P Y A G P Q V F R C A A A R G S E L C Q T A L S L H G R F R L L G N P R R N D L S L R V E R L A L A D D R R Y F C R V E F A G D V H D R Y E S R H G V R L H V T A A P R I I N I S V L P G P A H A F R A L C T A E G E P P P A L A W S G P A L G N G S A A V P S S G Q G H G H L V T A E L P A L N H D G R Y T C T A A N S L G R S E A S V Y L F R F H G A S G A S T
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, 150 mM NaCl, 0.3% Chaps, 5% Trehalose, pH 7.4
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	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

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[1][2][3][4].

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