

## CD163 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P700669
Synonyms:	M130; CD163 molecule; CD163; GHI/61; HbSR; MM130; RM3/1; SCAR11; sCD163
Species:	Mouse
Source:	HEK293
Accession:	Q2VLH6-1 (V39-T1045)
Gene ID:	/
Molecular Weight:	120-150 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 $\mu$ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
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	CD163 protein is intricately involved in the clearance and endocytosis of hemoglobin/haptoglobin complexes within macrophages, serving a crucial function in protecting tissues from potential oxidative damage caused by free hemoglobin. Additionally, CD163 may contribute to the uptake and recycling of iron by facilitating the endocytosis of hemoglobin/haptoglobin complexes and subsequent breakdown of heme. The protein exhibits a calcium-dependent and pH-dependent binding affinity for hemoglobin/haptoglobin complexes, initiating a cascade of intracellular signals involving tyrosine kinase-dependent calcium mobilization, inositol triphosphate production, and the secretion of interleukin-6 (IL6) and colony-stimulating factor 1 (CSF1). Furthermore, the soluble form of CD163 (sCD163), released through shedding, may exert an anti-inflammatory role.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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