

## CL-P1/COLEC12 Protein, Rat (sf9, His)

Cat. No.:	HY-P76279
Synonyms:	Collectin-12; Nurse cell scavenger receptor 2; CL-P1; Nsr2
Species:	Rat
Source:	Sf9 insect cells
Accession:	Q4V885 (A101-L742)
Gene ID:	361289
Molecular Weight:	Approximately 90 kDa.

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 300 mM NaCl, 10% glycerol, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	CL-P1/COLEC12, a multifaceted scavenger receptor, plays a crucial role in host defense by promoting the binding and phagocytosis of various microbes, encompassing Gram-positive and Gram-negative bacteria as well as yeast. Additionally, it functions as a key mediator in the recognition, internalization, and degradation of oxidatively modified low-density lipoprotein (oxLDL) by vascular endothelial cells. The receptor exhibits versatile carbohydrate-binding capabilities, interacting with Gal-type ligands, D-galactose, L- and D-fucose, GalNAc, T, and Tn antigens in a calcium-dependent manner. Specifically, it internalizes GalNAc in nurse-like cells and binds to sialyl Lewis X, a trisaccharide, and asialo-orosomucoid (ASOR). Notably, the extracellular domain of CL-P1/COLEC12 forms a stable trimer and engages in interactions with fibrillar amyloid-beta peptide, suggesting its potential involvement in processes related to amyloid-beta pathology.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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