

MRC2 Protein, Canine (HEK293, His)

Cat. No.:	HY-P700874
Synonyms:	Mannose receptor C type 2;
Species:	Canine
Source:	HEK293
Accession:	A0A8I3NWU4 (G31-P533)
Gene ID:	/
Molecular Weight:	60-70 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ 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	<p>The MRC2 protein is implicated in potentially playing a role as an endocytotic lectin receptor with calcium-dependent lectin activity. It functions by internalizing glycosylated ligands from the extracellular space, releasing them in an endosomal compartment through clathrin-mediated endocytosis. MRC2 may be involved in the plasminogen activation system, controlling the extracellular levels of PLAUR/PLAU and thus regulating protease activity at the cell surface. Additionally, it is suggested to contribute to the cellular uptake, remodeling, and degradation of extracellular collagen matrices, potentially influencing collagen turnover during cancer progression and other chronic tissue destructive diseases. MRC2's involvement in the remodeling of the extracellular matrix is proposed to collaborate with matrix metalloproteinases (MMPs). It interacts with the C-terminal region of type I collagen/COL1A1, forms a tri-molecular complex with PLAUR/UPAR and PLAU/pro-UPA, and directly interacts with collagen V, highlighting its versatile role in cellular processes related to extracellular matrix dynamics.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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