

MMP-8 Protein, Cynomolgus (447a.a, HEK293, His)

Cat. No.:	HY-P700793
Synonyms:	PMNL-CL; CLG1; MMP8; Collagenase 2; PMNL-CL; HNC
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_005579523.2 (F21-S467)
Gene ID:	102141209
Molecular Weight:	60-70 kDa

PROPERTIES

Biological Activity	Immobilized Cynomolgus MMP-8, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-MMP-8 Antibody, hFc Tag with the EC ₅₀ of 38.2ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
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 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	MMP-8, also referred to as matrix metalloproteinase-8 or collagenase-2, is recognized for its enzymatic capabilities and specifically its ability to break down fibrillar type I, II, and III collagens. This enzymatic activity suggests that MMP-8 plays a significant role in the remodeling and turnover of collagen-rich tissues, such as connective tissues, cartilage, and bone. By degrading these fibrillar collagens, MMP-8 can contribute to processes such as tissue remodeling, wound healing, and inflammation resolution. Understanding the precise functions and regulation of MMP-8 can provide valuable insights into its involvement in collagen metabolism and tissue remodeling, potentially offering therapeutic opportunities for conditions characterized by abnormal collagen degradation or accumulation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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