

CLEC5A/MDL-1 Protein, Rat (HEK293, His)

Cat. No.:	HY-P76269
Synonyms:	C-type lectin domain family 5 member A; MDL-1; CLECSF5
Species:	Rat
Source:	HEK293
Accession:	D3ZPN6 (V30-K190)
Gene ID:	679787
Molecular Weight:	Approximately 36 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants 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	CLEC5A/MDL-1 functions as a positive regulator of osteoclastogenesis and serves as a cell surface receptor that signals through TYROBP, thereby modulating inflammatory responses. In the context of microbial infection, particularly as a critical macrophage receptor for dengue virus serotypes 1-4, CLEC5A plays a crucial role. The interaction between dengue virus and CLEC5A leads to signaling events involving the phosphorylation of TYROBP, which, interestingly, does not facilitate viral entry but rather induces the release of pro-inflammatory cytokines.
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Caution: Product has not been fully validated for medical applications. For research use only.

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