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## Product Data Sheet

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Product Name: CLEC5A Human, Sf9  
 Cat. No.: GP23173  
 Batch No.: 1

### Product Data

|                     |  |                    |                         |
|---------------------|--|--------------------|-------------------------|
| Purity              | >98%   | Source             | Sf9, Baculovirus cells. |
| Physical Appearance | solid  | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | C-type lectin domain family 5 member A ; CLECSF5; MDL-1;MDL1; C-type lectin superfamily member 5; Myeloid DAP12-associating lectin 1.  |                    |                         |
| Amino Acid Sequence | ADLPQIFNKS NDGFTTTRSY GTVSQIFGSS SPSPNGFITT RSYGTVCPKD<br>WEFYQARCFE LSTSESSWNE SRDFCKGKGS TLAIVNTPEKLFQDITDA<br>EKYFIGLIYH REEKRWRWIN NSVFNGNVTN QNQNFNCATI GLTKTFDAAS<br>CDISYRRICE KNAKHHHHHH |                    |                         |
| Formulation         | CLEC5A protein solution (0.25mg/ml) contains 20% glycerol, 1mM DTT & Phosphate buffered saline (pH7.4).  |                    |                         |

### Introduction

C-type lectin domain family 5-member A isoform 1 (CLEC5A) is part of the CTL/CTLD superfamily which carry various functions, for instance cell-cell signaling, cell adhesion, glycoprotein turnover, in addition to their inflammation & immune response abilities. CLEC5A operates as a cell attachment receptor for all 4 serotypes of Dengue virus in addition to Japanese encephalitis virus. CLEC5A binds to the dengue virus and it triggers signaling through the phosphorylation of TYROBP, as a result no viral entrance occurs, however this interaction does stimulate proinflammatory cytokine release. CLEC5A preforms as a positive regulator of osteoclastogenesis and also a main regulator of synovial injury & bone erosion for the period of autoimmune joint inflammation.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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CLEC5A produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain (28-188 a.a.) and fused to a 9 aa His Tag at C-terminus containing a total of 170 amino acids and having a molecular mass of 19.5kDa. CLEC5A shows multiple bands between 28-40kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

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