

**Datasheet for 000-001-M36****LL-37, 7-37****Overview**

|                     |                                     |
|---------------------|-------------------------------------|
| <b>Description:</b> | LL-37, (7-37) Peptide - 000-001-M36 |
| <b>Item No.:</b>    | 000-001-M36                         |
| <b>Size:</b>        | 1 mg                                |

**Product Details**

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Background:</b> | Cathelicidin (LL-37) are a family of antimicrobial proteins found in lysosomes of macrophages and polymorphonuclear leukocytes. Along with the family of proteins known as defensins, cathelicidins participate in the first line of defense by preventing local infection and systemic invasion of microbes. LL-37 binds to bacterial lipopolysaccharides (LPS) and is a potent chemotactic factor for recruiting mast cells to sites of inflammation. LL-37 is present in inflammatory skin diseases that include psoriasis, sub-acute lupus erythematosus, dermatitis and nickel contact hypersensitivity. It is not found in normal skin epidermis. The secreted protein is expressed primarily in bone marrow, testis and neutrophils. |
| <b>Synonyms:</b>   | Cathelicidin antimicrobial peptide, 18 kDa cationic antimicrobial protein, CAP-18, hCAP-18, Antibacterial protein FALL-39, FALL-39 peptide antibiotic, Antibacterial protein LL-37, CAMP, CAP18, FALL39, HSD26, control peptide, blocking peptide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Type:</b>       | Peptide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Target Details**

|                            |                                    |
|----------------------------|------------------------------------|
| <b>Purity/Specificity:</b> | Greater than 95% specific peptide. |
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**Application Details**

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| <b>Application Note:</b> | LL-37, 7-37 Control Peptide is suitable for use in ELISA, Western Blot, Dot blot, PCA, and other assays. Control peptide should be used at 1.0 µg per 1.0 µl of antiserum in per assay. Specific conditions for reactivity should be optimized by the end user. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                 |

## Formulation

|                               |                                              |
|-------------------------------|----------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                  |
| <b>Concentration:</b>         | 1.0 mg/ml by dry weight                      |
| <b>Buffer:</b>                | None                                         |
| <b>Reconstitution Volume:</b> | 1.0 mL                                       |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent) |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                 |
| <b>Storage Condition:</b>  | Store vial at 2 - 8 ° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Dilute only prior to immediate use. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                   |

## Disclaimer

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