

**Datasheet for 000-001-M28****Rat pTH 3-13****Overview**

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| <b>Description:</b> | Parathyroid hormone (pTH) Rat 3-13 Peptide - 000-001-M28 |
| <b>Item No.:</b>    | 000-001-M28                                              |
| <b>Size:</b>        | 1 mg                                                     |

**Product Details**

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Background:</b> | Parathyroid hormone (pTH) is the most important endocrine regulator of Ca <sup>2+</sup> and phosphorus concentration in the extracellular fluid. pTH is secreted from cells of the parathyroid glands and acts for the most part via the binding to specific G-protein coupled receptors on the surface of target cells in bone and kidney, utilizing the second messenger adenylate cyclase to regulate cAMP levels in cells. Like most other protein hormones, parathyroid hormone is synthesized as a prehormone and is processed intracellularly. The mature hormone, 84 amino acids in length, is released from secretory vesicles into the blood. Biologic effects of large C-terminal parathyroid hormone (PTH) fragments, such as pTH 7-84, are thought to regulate PTH secretion via an autocrine/paracrine regulatory mechanism |
| <b>Synonyms:</b>   | Parathyroid hormone, PTH, Parathormone, Parathyrin, control peptide, blocking peptide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Type:</b>       | Peptide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**Target Details**

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

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| <b>Application Note:</b> | Parathyroid hormone (pTH) Rat 3-13 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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