

## Recombinant Mouse NTS Protein, S23-L162, C-hFc tagged

**Cat. No.** Nts-06M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | NTS1/NTSR1 Protein, Mouse (HEK293, Fc) is the recombinant mouse-derived NTS1/NTSR1 protein, expressed by HEK293, with C-hFc labeled tag. The total length of NTS1/NTSR1 Protein, Mouse (HEK293, Fc) is 140 a.a., with molecular weight of 48-53 kDa.                                                                                                                                                                                                     |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | S23-L162                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>NTS1/NTSR1, the neurotensin receptor 1, is involved in the potential endocrine or paracrine regulation of fat metabolism.</p> <p>Neurotensin, the ligand for NTSR1, is known to induce smooth muscle contraction (By similarity). NTS1/NTSR1 interacts with neurotensin and engages with other proteins such as SORT1 and SORL1, suggesting a role in various cellular processes and potential implications for the regulation of fat metabolism.</p> |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 48-53 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Endotoxin</b>        | < 1 EU/μg protein by LAL                                                                                                                                                                                                                                                                                                                                                                                                                                 |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | Greater than 95% as determined by Tris-Bis PAGE                                                                                                                                                                                              |
| <b>Storage</b>        | Stored at -20 centigrade for 2 years. After reconstitution, it is stable at 4 centigrade for 1 week or -20 centigrade for longer (with carrier protein). It is recommended to freeze aliquots at -20 or -80 centigrade for extended storage. |
| <b>Storage Buffer</b> | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.                                                                                                              |
| <b>Shipping</b>       | Room temperature in continental US; may vary elsewhere.                                                                                                                                                                                      |
| <b>Reconstitution</b> | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.                                                                                                                                          |

## GENE INFORMATION

|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Nts neurotensin [ Mus musculus (house mouse) ]                                                       |
| <b>Official Symbol</b> | Nts                                                                                                  |
| <b>Synonyms</b>        | Nts; neurotensin; NN; NT; NT/N; NTS1; NMN-125; 5033428E16Rik; neurotensin/neuromedin N; neuromedin N |
| <b>Gene ID</b>         | 67405                                                                                                |
| <b>mRNA Refseq</b>     | NM_024435                                                                                            |
| <b>Protein Refseq</b>  | NP_077755                                                                                            |
| <b>UniProt ID</b>      | Q9D3P9                                                                                               |

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