

## PRODUCT INFORMATION

<b>Target</b>	NTSR2
<b>Synonyms</b>	NT-R-2; NTR2
<b>Description</b>	Recombinant human NTSR2 Protein with C-terminal human Fc tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	O95665
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-Human Fc tag
<b>Molecular Characterization</b>	NTSR2(Met1-Lys32) hFc(Glu99-Ala330)
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 29.6 kDa after removal of the signal peptide.
<b>Purity</b>	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
<b>Storage&amp;Shipping</b>	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
<b>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<b>Background</b>	NTSR2 encodes the neurotensin receptor type 2, a G-protein coupled receptor (GPCR) that binds the neuropeptide neurotensin (NTS). It primarily couples to Gq/11 and Gi/o proteins, triggering downstream phospholipase C activation, Ca <sup>2+</sup> mobilization, and MAPK signaling. NTSR2 is expressed in the central nervous system (notably in the midbrain, hypothalamus, and spinal cord) as well as in peripheral tissues. It mediates neurotensin-induced analgesia, hypothermia, and regulation of dopamine transmission, and contributes to neuronal excitability, pain modulation, and neuroendocrine secretion. Altered NTSR2 expression has been linked to psychiatric disorders, neuroinflammation, and certain cancers, making it a potential therapeutic target in neurobiology and oncology.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated





Figure 1. Human NTSR2 Protein, hFc Tag on SDS-PAGE under reducing condition.

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