

## **PRODUCT INFORMATION**

**Target** NTSR2

**Synonyms** NT-R-2; NTR2

Recombinant human NTSR2 Protein with C-**Description** 

terminal human Fc tag

**Delivery** In Stock **Uniprot ID** 095665 **Expression Host HEK293** 

Tag C-Human Fc tag

Molecular

**Background** 

NTSR2(Met1-Lys32) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of **Molecular Weight** 29.6 kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

**Purity** 

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before

Formulation & lyophilization. Please see Certificate of Analysis Reconstitution

for specific instructions of reconstitution. 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). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

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.

> Email: info@dimabio.com Website: www.dimabio.com

Usage Research use only

Conjugate Unconjugated





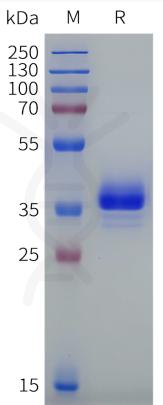


Figure 1. Human NTSR2 Protein, hFc Tag on SDS-PAGE under reducing condition.

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