

## HUMAN NTRK2 PROTEIN

**Cat.#:** 12261

**Product Name:** Human NTRK2 Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** DEE58;EIEE58;GP145-TrkB;OBHD;trk-B;TRKB

**Target:** NTRK2

**UNIPROT ID:** Q16620

**Description:** Recombinant human NTRK2 Protein with C-terminal 6xHis tag

**Background:** This gene encodes a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation. Mutations in this gene have been associated with obesity and mood disorders. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 45.0 kDa after removal of the signal peptide. The apparent molecular mass of NTRK2-His is approximately 55-100 kDa due to glycosylation.

**Molecular Characterization:** NTRK2(Cys32-His430) 6×His tag

**Purity:** The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** 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.



Figure 1. Human NTRK2 Protein, His Tag on SDS-PAGE under reducing condition.