

## TrkB Protein, Human, Recombinant (His) V2

### General Information

Synonyms:	TRKB;GP145-TrkB;Tkrb;neurotrophic tyrosine kinase, receptor, type 2;trk-B;GP145-TrkB/GP95-TrkB
Protein Construction:	Cys32-His430
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAH31835
Molecular Weight:	45.2 kDa (Predicted); 65-80 kDa (Due to glycosylation)

### QC Testing

Biological Activity:	Immobilized Human/Murine/Rat BDNF, No Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human TrkB, His Tag with the EC50 of 50.5 ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Neuron differentiation is likely regulated by a combination of transcription and growth factors. Embryonically, most geniculate neuron development is regulated by the growth factor brain derived neurotrophic factor (BDNF). BDNF expression becomes restricted to subpopulations of taste receptor cells with specific functions, the receptor for BDNF, tropomyosin kinase B receptor (TrkB), may also become developmentally restricted to a subset of taste neurons and could be one factor that is differentially expressed across taste neuron subsets.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481