



[Go to Product page](#)

Datasheet for ABIN7275744

TRKB Protein (AA 32-430) (His tag)

2 Images

Overview

Quantity:	100 µg
Target:	TRKB (NTRK2)
Protein Characteristics:	AA 32-430
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRKB protein is labelled with His tag.

Product Details

Purpose:	Human TrkB/NTRK2 Protein
Sequence:	Cys32-His430
Characteristics:	Recombinant Human TrkB/NTRK2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Cys32-His430.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	TRKB (NTRK2)
Alternative Name:	TrkB (NTRK2 Products)

Target Details

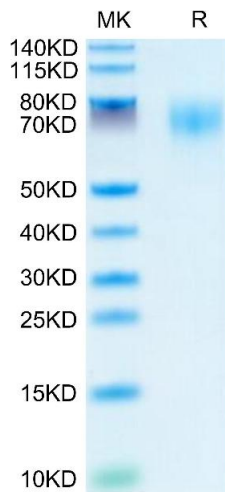
Background:	Neuron differentiation is likely regulated by a combination of transcription and growth factors. Embryonically, most geniculate neuron development is regulated by the growth factor brain derived neurotrophic factor (BDNF). BDNF expression becomes restricted to subpopulations of taste receptor 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.
Molecular Weight:	45.2 kDa. Due to glycosylation, the protein migrates to 65-80 kDa based on Tris-Bis PAGE result.
Pathways:	RTK Signaling , Neurotrophin Signaling Pathway , cAMP Metabolic Process , Skeletal Muscle Fiber Development , Feeding Behaviour , Dicarboxylic Acid Transport

Application Details

Restrictions:	For Research Use only
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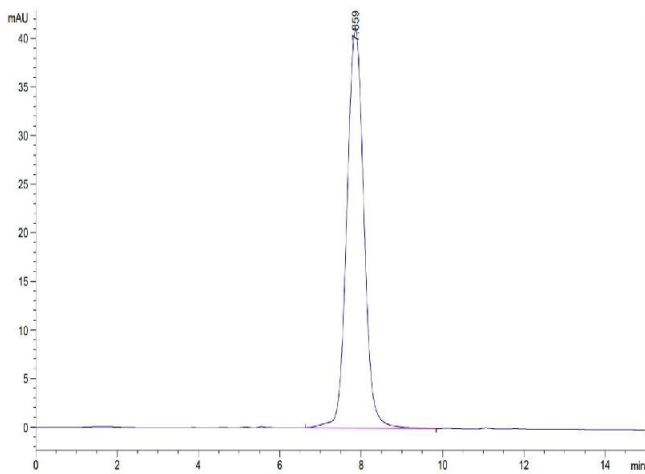
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

Image 1. Human TrkB on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human TrkB is greater than 95 % as determined by SEC-HPLC.