Data Sheet (Cat.No.TMPY-04069)

TargetMol

Neurotrophin 3 Protein, Human, Recombinant

General Information

Synonyms:	NGF2;HDNF;NT-3;neurotrophin 3;NGF-2;NT3
Protein Construction:	A DNA sequence encoding the human NT3 (P20783-1) (Tyr139-Thr257) was expressed and purified. Predicted N terminal: Met
Species:	Human
Expression Host:	E. coli
Accession:	P20783-1
Molecular Weight:	13.8 kDa (predicted); 16 kDa (reducing conditions)

QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized human NT3 at 2 μg/ml (100 μl/well) can bind human TrkB-Fch . The EC50 of human TrkB-Fch is 120-350 ng/mL.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 5. 2. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

NTF3 (Neurotrophin 3) is a Protein Coding gene. The protein encoded by this gene is a member of the neurotrophin family, that controls the survival and differentiation of mammalian neurons. This protein is closely related to both nerve growth factor and brain-derived neurotrophic factor. NTF3 is a key mediator of neuronal development during the early neurogenic period. NTF3 is a novel target gene of POU3F2 and that the POU3F2/NTF3 pathway plays a role in the process of neuronal differentiation. NTF3 is capable of activating TrkB to induce anoikis

resistance, and show that NTF3 is also a direct target of miR-200c. NTF3 is broadly expressed in the ovary, spleen, and other tissues. Diseases associated with NTF3 include Hypochondriasis and Demyelinating Disease.

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