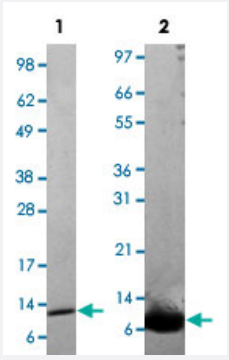
Bioactive

NTF3 (Human) Recombinant Protein

Catalog # P4433 Size 10 ug

Applications



Lane 1: non-reducing conditions
Lane 2: reducing conditions

Result of activity analysis

Result of activity analysis

C6 cells were cultured with 0 to 10 ug/mL human NTF3. Cell proliferation was measured after 7 days and the linear portion of the curve was us used to calculate the ED50.

Specification

Product Description	Human NTF3 (P20783) recombinant protein expressed in *Escherichia coli*.
Sequence	MYAEHKSHRGEYSVCDSESLWVTDKSSAIDIRGHQVTVLGEIKTGNSPVKQYFYETRCKEARPVK NGCRGIDDKHWNSQCKTSQTYVRALTSENNKLVGWRWIRIDTSCVCALSRKIGRT
Host	Escherichia coli
Theoretical MW (kDa)	27.2
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Endotoxin Level	< 0.1 EU/ug

Activity	The activity is determined by the dose-dependent proliferation of C6 cells. The expected ED_{50} for thi s effect is 3.6-5.4 ug/mL.
Quality Control Testing	1 ug/lane in 4-20% Tris-Glycine gel Stained with Coomassie Blue Lane 1: non-reducing conditions Lane 2: reducing conditions
Storage Buffer	Lyophilized from 0.02% TFA
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with sterilized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis C6 cells were cultured with 0 to 10 ug/mL human NTF3. Cell proliferation was measured after 7 days and the linear portion of the curve was us used to calculate the ED50.

Applications

- Functional Study
- SDS-PAGE

Gene Info — NTF3

Entrez GeneID	4908
Protein Accession#	P20783
Gene Name	NTF3
Gene Alias	HDNF, MGC129711, NGF-2, NGF2, NT3
Gene Description	neurotrophin 3
Omim ID	162660
Gene Ontology	Hyperlink

Gene Summary	The protein encoded by this gene is a member of the neurotrophin family, that controls survival and differentiation of mammalian neurons. This protein is closely related to both nerve growth factor and brain-derived neurotrophic factor. It may be involved in the maintenance of the adult nervous system, and may affect development of neurons in the embryo when it is expressed in human placenta. NTF3-deficient mice generated by gene targeting display severe movement defects of the limbs. The mature peptide of this protein is identical in all mammals examined including human, pig, rat and mouse. [provided by RefSeq
Other Designations	-

Pathway

- MAPK signaling pathway
- Neurotrophin signaling pathway

Disease

- Asperger Syndrome
- Attention
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Bipolar Disorder
- Disease Models
- Eating Disorders
- Genetic Predisposition to Disease
- Mental Disorders
- Neuropsychological Tests
- Schizophrenia
- Social Perception
- Tobacco Use Disorder