

Product datasheet for TP324475M

Neurofilament (NEFM) (NM_005382) Human Recombinant Protein

Product data:

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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human neurofilament, medium polypeptide (NEFM), transcript variant 1, 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC224475 representing NM_005382 Red=Cloning site Green=Tags(s) |

MSYTLDSLGNPSAYRRVTETRSSFSRVSGSPSSGFRSQSWSRGSPSTVSSSYKRSMLAPRLAYSSAMLSS
AESSLDFSQSSLLNGGSGPGGDYKLSRSNEKEQLQGLNDRFAGYIEKVHYLEQQNKEIEAEIQALRQKQ
ASHAQLGDAYDQEIRELRATLEMVNHEKAQVQLDSDHLEEDIHRLKERFEEEARLRDDTEAAIRALRKDI
EEASLVKVELDKKQSLQDEVAFLRSNHEEEVADLLAQIQASHITVERKDYLKTDISTALKEIRSQLESH
SDQNMHQAEWFKCRYAKLTEAAEQNKEAIRSAKEEIAEYRRQLQSKSIELESVRGTTKESLERQLSDIEE
RHNHDLSSYQDTIQLENELRGTKWEMARHLREYQDLLNVKMALDIEIAAYRKLLEGEETRFSTFAGSIT
GPLYTHRPPITISSKIQTKEAPKLVQHKFVEEIEETKVEDEKSEMEEALTAITEELAVSMKEEKKE
AAEEEEPEAEVEEVAACKSPVKATAPEVKEEEGEKEEEEGQEEEEDEGAKSDQAEEGGSEKEGSSE
KEEGEQEEGETEAE
PKSPVEEKGKSPVPKSPVEEKGKSPVPKSPVEEKGKSPVSKSPVEEKAKSPVPKSPVEEAKSKAEVKGKE
QKEEEKEVKEAPKEEKVEKKEEKPKDVPEKKAESPVKEEVAEVTITKSVKHLEKETKEEGKPLQQ
EKEKEKAGGEGGSEEEGSDKGAKGSRKEDIAVNGEVEGKEEVEQETKEKSGREEEKGVTNGLDLSPAD
EKKGGDKSEKVVTKTVEKITSEGGDGATKYITKSVTVTKVVEEHEETFEEKLVSTKKVEKVTSHAIVK
EVTQSD

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

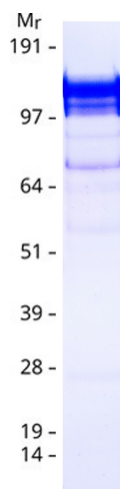
| | |
|----------------|---|
| Tag: | C-Myc/DDK |
| Predicted MW: | 102.3 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |



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| | |
|--------------------------|--|
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | <u>NP_005373</u> |
| Locus ID: | 4741 |
| UniProt ID: | <u>P07197</u> |
| RefSeq Size: | 3238 |
| Cytogenetics: | 8p21.2 |
| RefSeq ORF: | 2748 |
| Synonyms: | NEF3; NF-M; NFM |
| Summary: | Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and functionally maintain neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the medium neurofilament protein. This protein is commonly used as a biomarker of neuronal damage. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008] |
| Protein Pathways: | Amyotrophic lateral sclerosis (ALS) |

Product images:



Coomassie blue staining of purified NEFM protein (Cat# [TP324475]). The protein was produced from HEK293T cells transfected with NEFM cDNA clone (Cat# [RC224475]) using MegaTran 2.0 (Cat# [TT210002]).