

Recombinant Human NRTN Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50742

Size: 10ug, 100ug

Protein Name: Neurturin

Synonym: NRTN

UniProt ID: Q99748

UniProt Link: www.uniprot.org/uniprotkb/Q99748/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 197 AA

Molecular Weight: 22 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MQRWKAAALASVLCSSVLSIWMCREGLLLSHRLGPALVPLHRLPRTLDARIARLAQYRALLQGAPDA
MELRELTPWAGRPPGPRRRRAGPRRRRRARARLGARPCGLRELEVRVSELGLGYASDETVLFRYCAG
ACEAAARVYDLGLRRLRQRRRLRRERVRAQPCCRPTAYEDEVSFLDAHSRYHTVHELARSARECACV

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Neurturin produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Growth factor that supports the survival of sympathetic neurons in culture (PubMed:8945474). May regulate the development and maintenance of the CNS (PubMed:8945474). Involved in the development of the neural crest (PubMed:15242795). Might control the size of non-neuronal cell population such as haemopoietic cells (PubMed:8945474). Acts by binding to its coreceptor, GFRA2, leading to autophosphorylation and activation of the RET receptor (PubMed:10829012, PubMed:29414779, PubMed:31535977). Heparan sulfate-binding is required for signaling (PubMed:29414779).

Subcellular Localization: Secreted .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.