

NT 4 Antibody

*Neurotrophin 4, Mouse Anti-Human
ABM0515*

Product Overview

Name NT 4 Antibody

Description

Neurotrophin 4, Mouse Anti-Human

Synonyms

NT4, NT5, NTF5, NT-4/5, NTF4, Neurotrophin-4, Neurotrophic factor 4, Neurotrophin-5, NT-5.

Introduction

NT-4 is part of the family of neurotrophic factors, neurotrophins, that are in charge for the survival and differentiation of mammalian neurons. NT-4 expression is dominant and less influenced by environmental signals. NT-4 deficient mice shows slight cellular deficits and develop normally to adulthood. NT-4 is a target-derived survival factor for peripheral sensory sympathetic neurons. NT-4 is involved in the proliferation and differentiation of periodontal ligament cells.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a concentrated (1 mg/ml) solution in water containing 20mM phosphate buffer pH-7.4 and 150mM NaCl.

Stability

Lyophilized NT-4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NT-4 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

GVSETAPASR RGELAVCDAV SGWVTDRRTA VDLRGREVEV LGEVPAAGGS PLRQYFFETR CKADNAEEGG
PGAGGGGCRG VDRRHVVSEC KAKQSYVRAL TADAQGRVGV RWIRIDTACV CTLLSRTGRA.

Biological Activity

Determined by the dose-dependent induction of choline acetyl transferase activity in rat basal forebrain primary septal

cell cultures was found to be in the range of 20-50 ng/ml.

Solubility

It is recommended to reconstitute the lyophilized NT-4 in sterile 18M²-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

NT 4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.