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Human Neurotrophin-3 (hNT-3)



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10 µg

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MW (kDa): 14	UniProt ID: #P20783	Entrez-Gene Id: 4908
Background		NT-3 is a member of the structurally related neurotrophin family of proteins, which includes β -NGF, BDNF and NT-4 (1). NT-3 is expressed in a number of cell types including neuronal cells, eosinophils, and melanocytes (1-3). NT-3 is required for the development of peripheral sensory neurons (4). NT-3 is secreted from cells as a precursor protein, which is proteolytically cleaved into the mature form (1). NT-3 signaling is mediated through two distinct receptors, the neurotrophin receptor p75NTR and the Trk tyrosine kinase receptor TrkC. While all neurotrophins bind to the p75NTR receptor, NT-3 preferentially binds to TrkC and, with lesser affinity, TrkB (1).
Endotoxin		Less than 0.01 ng endotoxin/1 μg hNT-3.
Purity		>98% as determined by SDS-PAGE of 6 μg reduced (+) and non-reduced (-) recombinant hNT-3. All lots are greater than 98% pure.
Source / Purifica	ation	Recombinant human Neurotrophin-3 (hNT-3) Tyr139-Thr257 (Accession #NP_002518) was produced in <i>E.coli</i> at Cell Signaling Technology.
Bioactivity		The bioactivity of recombinant hNT-3 was determined in a TrkC-transfected NIH/3T3 cell proliferation assay. The ED_{50} of each lot is between 0.5 - 5 ng/ml.
Background References		1. Huang, E.J. and Reichardt, L.F. (2001) <i>Annu Rev Neurosci</i> 24, 677-736. 2. Noga, O. et al. (2003) <i>Clin Exp Allergy</i> 33, 649-54. 3. Truzzi, F. et al. (2008) <i>J Invest Dermatol</i> 128, 2031-40. 4. Tessarollo, L. et al. (1994) <i>Proc Natl Acad Sci U S A</i> 91, 11844-8.

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