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37-1144: Human NGFR/ P75 Recombinant Protein (His Tag)(Discontinued)

Reactivity : Human
Alternative Name : CD271 Protein, Gp80-LNGFR Protein, p75(NTR) Protein, p75NTR Protein, TNFRSF16 Protein,

Description

Source : HEK293 Cells
Nerve growth factor receptors (NGFRs) belong to a large growth factor receptor family. NGFR includes two types of receptors: high-affinity nerve growth factor receptor and low-affinity nerve growth factor receptor. High-affinity nerve growth factor receptor is also referred as Trk familywhose members are bound by some neurotrophins with high affinity. Nerve growth factor binds with TrkA after being released from target cells, the NGF / TrkA complex is subsequently trafficked back to the cell body. The Low-affinity nerve growth factor receptor also named p75 which binds with all kinds of neurotrophins with low affinity. All the four kinds of neurotrophins, including Nerve growth factor, Brain derived neurotrophic factor, Neurotrophin-3, and Neurotrophin-4 bind to the p75. Studies have proved that NGFR acts as a molecular signal swith that determines cell death or survival by three steps. First, pro-nerve growth factor (prNGF) triggers cell apoptosis by its high affinity binding to p75NTR, while NGF induces neuronal survival with low-affinity binding. Second, p75NTR mediates cell death by combining with co-receptor sortilin, whereas it promotes neuronal survival through combination with proNGF. Third, release of the intracellular domain chopper or cleavage short p75 NTR can independently initiate neuronal apoptosis.

Product Info

Amount :	Human NGFR/ P75 Recombinant Protein (His Tag)(Discontinued) / 100 µg
Purification :	> 95 % as determined by SDS-PAGE
Content :	Formulation Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Storage condition :	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Amino Acid :	Met1-Asn250

Application Note

Endotoxin :< 1.0 EU per Ã‚Âµg of the protein as determined by the LAL method.
Other pack size also available.

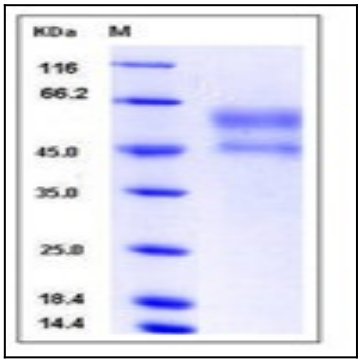

Fig 1: Human NGFR/ P75 Recombinant Protein (His Tag)

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