

RPES8008

Product Information

Product SKU:	RPES8008	Expression Host:	E.coli	Size:	20µg
Tag:	N-Trx	Reactivity:	human	Accession:	P39905

Additional Information

Calculated MW:	31.2 kDa	Observed MW:	31 kDa
Sequence:	Arg109-Ile211		

Protein Information

Background: This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. The recombinant form of this protein, a highly conserved neurotrophic factor, was shown to promote the survival and differentiation of dopaminergic neurons in culture, and was able to prevent apoptosis of motor neurons induced by axotomy. This protein is a ligand for the product of the RET (rearranged during transfection) protooncogene. Mutations in this gene may be associated with Hirschsprung disease and Tourette syndrome. This gene encodes multiple protein isoforms that may undergo similar proteolytic processing.

Synonyms: Astrocyte derived trophic factor, Astrocyte derived trophic factor 1, Astrocyte-derived trophic factor, ATF 1, ATF 2, Atf, ATF1, ATF2, gdnf, GDNF, Glial cell derived neurotrophic factor, Glial Cell Line Derived Neurotrophic Factor, Glial cell line-derived neurotrophic factor, Glial derived neurotrophic factor, HFB1 GDNF, hGDNF, HSCR3

Endotoxin: < 10 EU/mg of the protein as determined by the LAL method

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

Purity: > 90% as determined by reducing SDS-PAGE.

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Bio-Activity:

Not validated for activity

Storage:

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.