

Recombinant Human TrkA/Fc Chimera, Carrier Free Datasheet

Catalog Number: PR15051-50

Product Type: Recombinant protein

Source:	Human CD33 Signal Peptide(Met 1 - Ala 16)	Human Trk A (Ala 33 - Glu 407)	IEGRID	Human IgG ₁ (Pro 100 - Lys 330)
	N			C

A DNA sequence encoding the signal peptide from human CD33 joined with the extracellular domain of human Trk A (Ala 33 - Glu 407; Accession # AAA36770) (Martin-Zanca, D. *et al.*, 1989, Mol. Cell Biol. **9**:24 - 33) was fused to the Fc region of human IgG1 via a polypeptide linker. The chimeric protein was expressed in a mouse myeloma cell line, NS0.

Molecular Mass: The recombinant mature human Trk A/Fc is a disulfide-linked homodimeric protein. Based on N-terminal sequencing, the recombinant human Trk A/Fc protein has Ala 33 at the amino-terminus. The reduced human Trk A monomer has a calculated molecular mass of approximately 67.4 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 115 - 125 kDa protein in SDS-PAGE under reducing conditions.

Purity: > 95%, as determined by SDS-PAGE and visualized by silver stain.

Endotoxin Levels: < 1.0 EU per 1 µg of the enzyme as determined by the LAL method.

Activity:

- Measured by its ability to inhibit NGF-induced proliferation of TF1 cells.
- The ED50 for this effect is typically 0.8 - 4 µg/mL in the presence of 10 ng/mL of rhNGF. The cell number is assessed in a fluorometric assay using a redox sensitive dye,

Format: Lyophilized from a 0.2 µm filtered solution in PBS.

Reconstitution: It is recommended that sterile PBS containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 100 µg/mL

Storage: Lyophilized samples are stable for up to six months at -20° C to -70° C. Upon reconstitution, this cytokine, in the presence of a carrier protein, can be stored under sterile conditions at 2 - 8° C for one month or at -20° C to -70° C in a manual defrost freezer for three months without detectable loss of activity.
Avoid repeated freeze-thaw cycles.

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www.neuromics.com

Neuromics Antibodies • 5325 West 74th Street, Suite 8 • Edina, MN 55439
phone 866-350-1500 • fax 612-677-3976 • e-mail pshuster@neuromics1.com