
Product Data Sheet

Product Name: TFAFA2 Human
 Cat. No.: GP20934
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Family with sequence similarity 19 (chemokine (C-C motif)-like) member A2; Chemokine-like protein TFAFA-2; protein FAM19A2.		
Amino Acid Sequence	ANHHKAHHVK TGTCEVVALH RCCNKNKIEE RSQTVKCSCF PGQVAGTTRA APSCVDASIV EQKWWCHMQP CLEGEECKVL PDRKGWSCSS GNKVKTTTRVT H		
Solubility	It is recommended to reconstitute the lyophilized TFAFA2 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a 0.2µm filtered concentrated solution in 16 ⁺ PBS, pH7.4.		

Introduction

TFAFA-2 is a 11 kDa secreted protein that belongs to the FAM19/TFAFA family of chemokine-like proteins. Similar to other FAM19/TFAFA family members, mature TFAFA-1 contains 10 regularly spaced cysteine residues with the same pattern: CX7CCX13CX14CX11CX4CX5CX10C (C symbolizes a conserved cysteine residue and X symbolizes any noncysteine amino acid). Human TFAFA-2 is 97% aa identical to mouse TFAFA-2 and is expressed in the central nervous system (CNS), colon, heart, lung, spleen, kidney, and thymus, however its expression in the CNS is 50 to 1000 fold higher than in other tissues. The biological roles of TFAFA family members have not yet been determined.

Biological Activity

Fully biologically active when compared to standard. Measured by its ability to enhance neurite outgrowth of E16-E18 rat embryonic cortical neurons.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Lyophilized TAFA2 although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution TAFA2 should be stored at 4C between 2-7 days and for future use below -18C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

TAFA2 Human Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 101 amino acids and having a molecular mass of 11.2kDa. The TAFA2 is purified by proprietary chromatographic techniques.

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