

Overview

Synonyms	Chemokine-like protein TFAFA-2, FAM19A2
Description	TFAFA-2 also named FAM19A2 belongs to the TFAFA family of chemokinelike proteins. Like other members of the FAM19/TFAFA family, with the exception of TFAFA5, mature TFAFA1 to 4 contain 10 regularly spaced cysteine residues. Human TFAFA2 is 97% aa identical to mouse TFAFA2. TFAFA2 expression can be detected in the central nervous system (CNS), colon, heart, lung, spleen, kidney, and thymus, but its expression in the CNS is 50 to 1000fold higher than in other tissues. Within the CNS, TFAFA2 expression is highest in the occipital and frontal cortex (3 to 10fold more abundantly expressed than in other cortical regions) and medulla. The biological functions of TFAFA family members remain to be determined, but there are a few tentative hypotheses.
Species Source	Human <i>E. coli</i>
Biological Activity	Fully biologically active when compared to standard. The biological activity is determined by its ability to enhance neurite outgrowth of E16-E18 rat embryonic cortical neurons. rHuTFAFA-2, immobilized at 6-24 µg/mL on a 96 well plate, is able to significantly enhance neurite outgrowth.
Sequence	ANHHKAHHVK TGTCEVVALH RCCNKNKIEE RSQTVKCSCF PGQVAGTTRA APSCVDASIV EQKWWCHMQP CLEGECKVL PDRKGWSSCS GNKVKTTTRVT H

Properties

Measured Molecular Weight Purity Formulation	Approximately 11.2 kDa, a single, non-glycosylated polypeptide chain containing 101 amino acids. > 95 % by SDS-PAGE and HPLC analyses. Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at d -20 °C. Further dilutions should be made in appropriate buffered solutions.
Endotoxin Level Physical Appearance	Less than 1 EU/µg of rHuTFAFA-2 as determined by LAL method. Sterile Filtered White lyophilized (freeze-dried) powder.
Storage	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.

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