DATASHEET
Version 20181206

TAFA-2/FAM19A2, Human

Cat. No.: Z02950-1

Size: 1.0 mg

Synonyms: Chemokine-like protein TAFA-2, FAM19A2

Description:

TAFA-2 also named FAM19A2 belongs to the TAFA family of chemokinelike proteins. Like other members of the FAM19/TAFA family, with the exception of TAFA5, mature TAFA1 to 4 contain 10 regularly spaced cysteine residues. Human TAFA2 is 97% aa identical to mouse TAFA2. TAFA2 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, TAFA2 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 TAFA family members remain to be determined, but there are a few tentative hypotheses.

Amino Acid Sequence:

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00001 ANHHKAHHVK TGTCEVVALH RCCNKNKIEE RSQTVKCSCF
00041 PGQVAGTTRA APSCVDASIV EQKWWCHMQP CLEGEECKVL
00081 PDRKGWSCSS GNKVKTTRVT H
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Source: *E. coli*

Species: Human

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. rHuTAFA-2, immobilized at 6-24 μg/mL on a 96 well plate, is able to significantly enhance neurite outgrowth.

Molecular Weight: Approximately 11.2 kDa, a single, non-glycosylated polypeptide chain containing 101 amino acids.

Formulation: Lyophilized from a 0.2 μm filtered concentrated solution in 2 × PBS, pH 7.4.

Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

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 ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Purity: > 95 % by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 1 EU/μg of rHuTAFA-2 as determined by LAL method.

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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