



## Family with Sequence Similarity 19 Member A2, human recombinant (rHuTFAA2)

**Catalog No:** 97438  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Family with sequence similarity 19 (chemokine (C-C motif)-like) member A2, Chemokine-like protein TFAA-2, protein FAM19A2

### Background

TFAA-2 is a 11 kDa secreted protein that belongs to the FAM19/TFAA family of chemokine-like proteins. Similar to other FAM19/TFAA family members, mature TFAA-1 contains 10 regularly spaced cysteine residues with the same pattern: CX7CCX13CXCX14CX11CX4CX5CX10C (C symbolizes a conserved cysteine residue and X symbolizes any noncysteine amino acid). Human TFAA-2 is 97% aa identical to mouse TFAA-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 TFAA family members have not yet been determined.

### Description

TFAA2 human recombinant produced in *E. coli* is a non-glycosylated, polypeptide chain containing 101 amino acids and having a molecular mass of 11.2 kDa. TFAA2 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

The protein was lyophilized from a 0.2 µm filtered concentrated solution in 1×PBS, pH 7.4.

### Solubility

It is recommended to reconstitute the lyophilized TFAA2 in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized TFAA2, although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution TFAA2 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.

### Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

ANHHKAHVVK TGTCEVVALH RCCNKNKIEE RSQTVKCSCF PGQVAGTTRA APSCVDASIV EQKWWCHMQP CLEGEECKVL  
PDRKGWSCSS GNKVKTTTRVT H

### Activity

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

**CONTACT US TODAY**

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51



### Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

**CONTACT US TODAY**

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • [info@biomol.de](mailto:info@biomol.de) • [www.biomol.de](http://www.biomol.de)

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51