

# Recombinant Human Chemokine-like protein TAFA-2

## **Information**

Gene ID	338811	
Accession #	Q8N3H0	
Alternate Names	FAM19A2	
Source	Escherichia coli.	
M.Wt	Approximately 11.2 kDa, a single, non-glycosylated polypeptide chain containing 101 amino acids.	
AA Sequence	ANHHKAHHVK TGTCEVVALH RCCNKNKIEE RSQTVKCSCF PGQVAGTTRA APSCVDASIV EQKWWCHMQP CLEGEECKVL PDRKGWSCSS GNKVKTTRVT H	
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution	
Formulation	Lyophilized from a 0.2 $_{\mu}$ m filtered concentrated solution in 2 $\times$ 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 $\leq$ -20 °C. Further dilutions should be made in appropriate buffered solutions.	
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 $\mu$ g/mL on a 96 well plate, is able to significantly enhance neurite outgrowth.	
Shipping Condition	Gel pack.	
Handling	Centrifuge the vial prior to opening.	
Usage	For Research Use Only! Not to be used in humans.	
Components and Storage		

#### Components and Storage

Components	5µg	100µg	500µg
Recombinant Human Chemokine-like protein TAFA-2	5µg	100µg	500µg

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- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

Quality Control	Le com	el Que
Purity	> 95 % by SDS-PAGE and HPLC analyses.	Rectine constraint
Endotoxin	Less than 1 EU/ $\mu$ g of rHuTAFA-2 as determined by the set of the	ed by LAL method.

## Description

TAFA-2 also named FAM19A2, is a chemokinelike protein which is belonged to the FAM19/TAFA family. The family is a newly discovered and distantly related to MIP-1 a. It contains 5 members and TAFA proteins are highly expressed in specific brain regions. Like other members of the TAFA family, with the exception of TAFA5, mature TAFA1 contains 10 regularly spaced cysteine residues. Human TAFA2 is 97 % a.a. identical to mouse TAFA2. The biological functions of TAFA family members remain to be determined, but they are postulated to act as brain-specific chemokines or neurokines that take parts in regulators of immune and nervous cells.

### Reference

- 1. Tom Tang Y, Emtage P, Funk WD, et al. 2004. Genomics, 83: 727-34
- 2. Sambo MH, Lewis I, Idris SH. 2010. Niger J Med, 19: 194-8
- 3. Fischer C, Christ E, Korf HW, et al. 2012. Gen Comp Endocrinol, 177: 98-103.

