

TAFA1/FAM19A1 Protein, Human

Cat. No.:	HY-P79169
Synonyms:	TAFA Chemokine Like Family Member 1; FAM19A1; TAFA-1; Family With Sequence Similarity 19 Member A1, C-C Motif Chemokine Like; Chemokine-Like Protein TAFA-1; Family With Sequence Similarity 19 (Chemokine (C-C Motif)-Like), Member A1; Protein FAM19A1; Famil
Species:	Human
Source:	E. coli
Accession:	NP_998774 (S26-T133)
Gene ID:	407738
Molecular Weight:	Approximately 12.4 kDa

PROPERTIES

AA Sequence	<p>S L Q H T F Q Q H H L H R P E G G T C E V I A A H R C C N K N R I E E R S Q T V</p> <p>K C S C L P G K V A G T T R N R P S C V D A S I V I G K W W C E M E P C L E G E</p> <p>E C K T L P D N S G W M C A T G N K I K T T R I H P R T</p>
Biological Activity	<p>1. Measured by its ability to enhance neurite outgrowth of E16-E18 rat embryonic cortical neurons. Human TAFA1/FAM19A1, immobilized at 6-24 µg/mL on a 96-well plate, is able to significantly enhance neurite outgrowth.</p> <p>2. Measured by its ability to enhance the outgrowth of SH-SY5Y cells. The ED50 for this effect is 2.756 µg/mL, corresponding to a specific activity is 362.845 units/mg.</p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 200 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The TAFA1/FAM19A1 protein belongs to the TAFA family, which consists of five closely related genes encoding small secreted proteins. These proteins share conserved cysteine residues at specific positions and are distantly related to MIP-1α, a member of the CC-chemokine family. Primarily expressed in distinct brain regions, the TAFA proteins are believed to act as brain-specific chemokines or neurokinins that regulate immune and nervous cells. This information is provided by RefSeq in
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July 2008. Notably, the TAF1/FAM19A1 gene exhibits biased expression in the brain (RPKM 6.6) and prostate (RPKM 0.3).

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

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