Growth Factor Data Sheet

GoldBio growth factors are manufactured for RESEARCH USE ONLY and cannot be sold for human consumption!

FAM19A2 (TAFA-2) is chemokine-like protein containing ten cysteine residues that are conserved amongst the FAM19A (TAFA) family. This family of proteins was first identified by using a clustering algorithm on uncharacterized cDNA sequences and found to be distantly related to C-C motif chemokines, such as CCL3. FAM19A2 is expressed predominantly in the CNS, with very low expression levels detected in colon and spleen. Expression levels of FAM19A2 are highest in the occipital and frontal cortex and it is believed to be expressed constitutively. FAM19A2 is hypothesized to function as a brain-specific chemokine that regulates immune response in the CNS, as a neurokine that modulates immune response, or as a control of axonal sprouting following brain injury.

Catalog Number **Product Name**	**2150-01** **FAM19A2, Human** Recombinant Human Family with Sequence Similarity 19 (Chemokine (C-C motif)-like), Member A2 TAFA-2
Source	*Escherichia coli*
MW	~11.2 kDa (101 amino acids)
Sequence	ANHHKAHHVK TGTCEVVALH RCCNKNKIEE RSQTVKCSCF PGQVAGTTRA APSCVDASIV EQKWWCHMQP CLEGEECKVL PDRKGWSCSS GNKVKTTRVT H
Accession Number	Q8N3H0
Purity	>95% by SDS-PAGE and HPLC analyses
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.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.