

Recombinant Human Chemokine-like protein TFAFA-2 (rHuTFAFA-2)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	205-01
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 11.2 kDa, a single, non-glycosylated polypeptide chain containing 101 amino acids.
Quantity:	5µg /20µg /1000µg
AA Sequence:	ANHHKAHHVK TGTCEVVALH RCCNKNKIEE RSQTVKCSF PGQVAGTTRA APSCVDASIV EQKWWCHMQP CLEGEECKVL PDRKGWSCSS GNKVKTTTRVT H
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. rHuTFAFA-2, immobilized at 6-24 µg/mL on a 96 well plate, is able to significantly enhance neurite outgrowth.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4.
Endotoxin:	Less than 1 EU/µg of rHuTFAFA-2 as determined by LAL method.
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.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 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.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Human Chemokine-like protein TFAFA-2

TFAFA-2 also named FAM19A2, is a chemokine-like protein which is belonged to the FAM19/TFAFA family. The family is a newly discovered and distantly related to MIP-1α. It contains 5 members and TFAFA proteins are highly expressed in specific brain regions. Like other members of the TFAFA family, with the exception of TFAFA5, mature TFAFA1 contains 10 regularly spaced cysteine residues. Human TFAFA2 is 97 % a.a. identical to mouse TFAFA2. The biological functions of TFAFA 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.