

Recombinant Human Chemokine-like protein TAFA-2

(Human TAFA-2)

Product Information

Product Name	Cat#	Size
Recombinant Human Chemokine-like protein TAFA-2	92539ES08	5 μg
(Human TAFA-2)	92539ES60	100 μg
(Hullan IAIA-2)	92539ES76	500 μg

Product Description

TAFA2 also named FAM19A2, is a secreted, 11 kDa member of the FAM19/TAFA family of chemokine-like proteins. It is synthesized as a 131 amino acid (aa) precursor that contains a 30 aa signal sequence and a 101 aa mature chain. Like other members of the FAM19/TAFA family, with the exception of TAFA5, mature TAFA1 contains 10 regularly spaced cysteine residues that follow the pattern CX7CCX13CXCX14CX11CX4CX5CX10C, where C represents a conserved cysteine residue and X represents any noncysteine amino acid. Human TAFA2 is 97% aa identical to mouse TAFA2. The biological functions of TAFA family members remain to be determined, but there are a few tentative hypotheses. First, TAFAs may modulate immune responses in the CNS by functioning as brain-specific chemokines, and may act with other chemokines to optimize the recruitment and activity of immune cells in the CNS. Second, TAFAs may represent a novel class of neurokines that act as regulators of immune nervous cells. Finally, TAFAs may control axonal sprouting following brain injury.

Product Properties

Synonyms	Chemokine-like protein TAFA-2, FAM19A2, MGC42403, TAFA2	
Accession	Q8N3H0	
GeneID	338811	
Source	E.coli-derived human TAFA-2 protein, Ala31-His131.	
Molecular Weight	Approximately 11.2 kDa.	
AA Sequence	ANHHKAHHVK TGTCEVVALH RCCNKNKIEE RSQTVKCSCF PGQVAGTTRA APSCVDASIV	
	EQKWWCHMQP CLEGEECKVL PDRKGWSCSS GNKVKTTRVT H	
Tag	None	
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	
Purity	>95% by SDS-PAGE and HPLC analyses.	
Biological Activity	The biological activity is determined by its ability to enhance neurite outgrowth of E16-E18 rat embryonic	
	cortical neurons. recombinant human TAFA-2, immobilized at 6-24 µg/mL on a 96 well plate, is able to	
	significantly enhance neurite outgrowth. Fully biologically active when compared to standard.	
Endotoxin	< 1.0 EU per $1\mu g$ of the protein by the LAL method.	
Formulation	Lyophilized from a 0.2 μm 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.	

Shipping and Storage

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The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

- 1. Avoid repeated freeze-thaw cycles.
- 2. For your safety and health, please wear lab coats and disposable gloves for operation.
- 3. For research use only!

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