

Recombinant Human Chemokine-like protein TFAA-2

#R00401

Size: 5 µg/100 µg/500 µg

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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

TFAA-2 also named FAM19A2, is a chemokine-like protein which is belonged to the FAM19/TFAA family. The family is a newly discovered and distantly related to MIP-1α. It contains 5 members and TFAA proteins are highly expressed in specific brain regions. Like other members of the TFAA family, with the exception of TFAA5, mature TFAA1 contains 10 regularly spaced cysteine residues. Human TFAA2 is 97 % a.a. identical to mouse TFAA2. The biological functions of TFAA family members remain to be determined, but they are postulated to act as brain-specific chemokines or neurokinins that take parts in regulators of immune and nervous cells.

AA Sequence

ANHHKAHHVKTGTCEVVALHRCCNKNKIEERSQTVK
CSCFPGQVAGTTTRAAPSCVDASIVEQKWWCHMQPC
LEGEECKVLPDRKGWSCSSGNKVKTTRVTH

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.

Product Specification

Synonyms	FAM19A2
Accession	Q8N3H0
GeneID	338811
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 11.2 kDa, a single, non-glycosylated polypeptide chain containing 101 amino acids.
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. rHuTFAA-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 rHuTFAF-2 as determined by LAL method.