

# Human TFAA2/FAM19A2 Protein

Cat. No. FAM-HM2A2

## Description

<b>Source</b>	Recombinant Human TFAA2/FAM19A2 Protein is expressed from HEK293 with hFc tag at the N-terminus. It contains Ala31-His131.
<b>Accession</b>	Q8N3H0-1
<b>Molecular Weight</b>	The protein has a predicted MW of 36.74 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Tafa is a family of small secreted proteins with conserved cysteine residues and restricted expression in the brain. It is composed of five highly homologous genes referred to as Tafa-1 to -5. FAM19A2/TFAA-2 induces skeletal stem cell migration through the activation of Rac1-p38 signaling and is highly abundant in the central nervous system and MIP1 $\alpha$  regulates energy balance.

## Assay Data

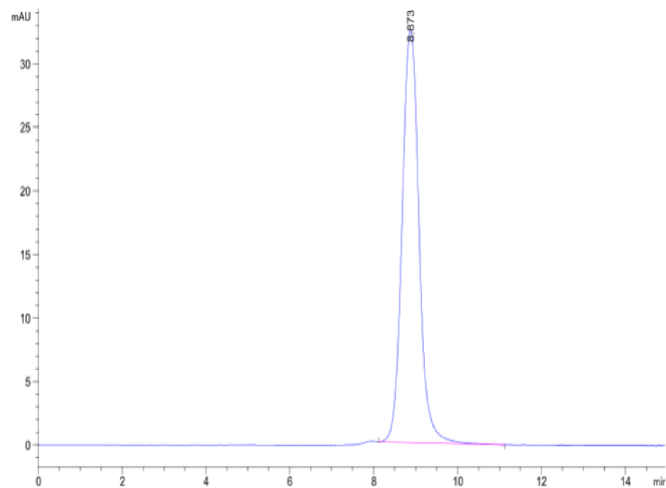
### Bis-Tris PAGE



Human TFAA2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



The purity of Human TFA2 is greater than 95% as determined by SEC-HPLC.