Recombinant TFF2 protein (His tag)

Catalog Number	537960
Synonyms	Spasmolysin; Spasmolytic polypeptide; SP
Species	Human
Expression System	E. coli
Accession	Q03403
Molecular Weight	Predictes a molecular mass of 13.64 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	24-129
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 24-129 aa (Q03403) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Trefoil Factor 2 (TFF2) Fragment (aa 24-129) is a high-purity protein designed for studying gastrointestinal motility and mucus stabilization. This 106-amino acid fragment fully encompasses the functional P-type 1 and P-type 2 domains, making it an ideal tool for domain-specific functional research. Trefoil Factor 2 (TFF2), also known as Spasmolysin or Spasmolytic polypeptide, is a secreted protein that plays crucial roles in gastrointestinal physiology. According to functional studies, TFF2 inhibits gastrointestinal motility and gastric acid secretion. It is believed to function as a structural component of gastric mucus, potentially stabilizing glycoproteins within the mucus gel through interactions with carbohydrate side chains. As a secreted protein, TFF2 operates in the extracellular environment where it contributes to mucosal protection and gastrointestinal homeostasis.