

Recombinant Protein Technical Manual Recombinant Mouse Trefoil Factor 3/TFF3 Protein (His Tag) RPES0422

## Product Data:

Product SKU: RPES0422

Size: 10µg

Species: Mouse

Expression host: Human Cells

**Uniprot:** Q62395

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Protein	

Molecular Mass:	7.3 kDa
AP Molecular Mass:	11 kDa
Tag:	C-His
Bio-activity:	
Purity:	> 95% as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per $\mu g$ as determined by the LAL method.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH7.4.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Trefoil factor 3; Intestinal trefoil factor; mITF; Tff3; Itf

## Sequence: Ala23-Phe81

## Background:

Trefoil factors (TFF) are secretory products of mucin producing cells. They play a key role in the maintenance of the surface integrity of oral mucosa and enhance healing of the gastrointestinal mucosa by a process called restitution. TFF comprises the gastric peptides (TFF1), spasmolytic peptide (TFF2), and the intestinal trefoil factor (TFF3). They have an important and necessary role in epithelial restitution within the gastrointestinal tract. Members of the trefoil family are characterized by having at least one copy of the trefoil motif, a 40-amino acid domain that contains three conserved disulfide bonds. They are stable secretory proteins expressed in gastrointestinal mucosa. Trefoil Factor 3(TFF3) is involved in the maintenance and repair of the intestinal mucosa. TFF3 promotes the mobility of epithelial cells in healing processes (motogen).