TFF3 Protein, Human (HEK293, His)

Cat. No.:	HY-P74529
Synonyms:	Trefoil factor 3; Intestinal trefoil factor; mITF; Tff3; Itf
Species:	Human
Source:	HEK293
Accession:	Q07654 (E22-F80)
Gene ID:	7033
Molecular Weight:	Approximately 8 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Trefoil factor 3 (TFF3) is a small peptide (59 amino acids; 7 kDa) that is a member of the trefoil family which are characterized by having at least one copy of the trefoil motif, a 40-amino acid domain that contains three conserved disulfides with three-loop structure. TFF3 is a stable secretory protein expressed in gastrointestinal mucosa, playing a role in restitution (cell migration to heal superficial lesions) and regeneration (differentiation and proliferation as repair) of epithelia, being involved in the maintenance and repair of the intestinal mucosa and promotes the mobility of epithelial cells in healing processes. The mode of action of Tff3 ranges from a simple increase in mucous viscosity, cytoprotection, and antiapoptotic and chemotactic effects to more complex immune regulatory functions. Tff expression patterns are altered in various tumors, implying a strong association with tumorigenesis. Tff3 presents in the bloodstream and various other organs, including the liver, brain, pancreas, and lymphoid tissue[1][2][3].

Caution: Product has not been fully validated for medical applications. For research use only.

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