Recombinant Human Trefoil factor 3/TFF3 protein (GST,His Tag)

Catalog Number: PDEH101073

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

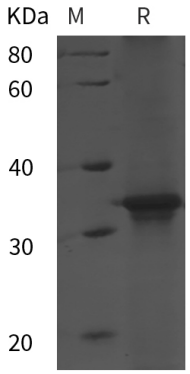
Description

Species	Human
Source	E.coli-derived Human Trefoil factor 3 protein Glu22-Phe80, with an N-terminal GST & C-terminal His
Calculated MW	31.4 kDa
Observed MW	25 kDa
Accession	Q07654
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Trefoil Factor 3 (TFF3) is one of three trefoil peptides secreted by epithelial cells that line mucus membranes. Trefoils contribute to protection and repair of the gastrointestinal tract. TFF3 is secreted by mucus-producing goblet cells in the large and small intestines and lower respiratory tract. It is mainly active as a disulfide-linked homodimer. The mature 59 aa, 6.5 kDa human TFF3 contains one trefoil structure formed by intramolecular disulfides and shows 76% aa identity with mouse TFF3.