

Recombinant Human Trefoil Factor 2

Catalog No: #AP60456

Package Size: #AP60456-1 5ug #AP60456-2 100ug #AP60456-3 500ug

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Description

Product Name	Recombinant Human Trefoil Factor 2
Host Species	Escherichia coli.
Purification	> 97 % by SDS-PAGE and HPLC analyses.
Other Names	Spasmolysin, Spasmolytic polypeptide, SP
Calculated MW	Approximately 12.0 kDa, a single non-glycosylated polypeptide chain containing 106 amino acids, which includes a 40-amino acid trefoil motif containing three conserved intramolecular disulfide bonds.
Target Sequence	EKPSPCQCSR LSPHNRTNCG FPGITSDQCF DNGCCFDSSV TGVPWCFHPL PKQESDQCVM EVSDRRNCGY PGISPEECAS RKCCFSNFIF EVPWCFFPKS VEDCHY
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 130 mM NaCl.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <input type="checkbox"/> A minimum of 12 months from date of receipt, when stored at ≤-20 °C as supplied. <input type="checkbox"/> 1 month, 2 to 8 °C under sterile conditions after reconstitution. <input type="checkbox"/> 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Background

Trefoil factor 2 encoded by the TFF2 gene in humans, belongs to the trefoil factor family that consists of three members named TFF1, TFF2 and TFF3. They are characterized by having at least one copy of the trefoil motif, a 40-amino acid domain that contains three conserved disulfides. The TFFs are stable secretory proteins expressed highly in the gastrointestinal tract (gastric mucosa). TFF2 can inhibit gastrointestinal motility and gastric acid secretion. Additionally, it functions as a structural component of gastric mucus, possibly by stabilizing glycoproteins in the mucus gel through interactions with carbohydrate side chains.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.