



## Interleukin-36 Gamma, human recombinant, His Tag (rhIL1E)

**Catalog No:** 99945  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Interleukin 36 gamma, IL1F9, interleukin 1 family member 9, Interleukin-1 epsilon, IL-1RP2, IL-1H1, IL1E, interleukin 1-related protein 2, Interleukin-1 homolog 1

### Background

Proteins of the TFF family are characterized by obtaining a minimum of one copy of the trefoil motif, a 40 amino acid domain that contains three conserved disulfides. Trefoil factors are stable secretory proteins expressed in gastrointestinal mucosa, which protect the mucosa from insults, stabilize the mucus layer and affect healing of the epithelium. TFF2 inhibits gastric acid motility and secretion. TFF2 stabilizes glycoproteins in the mucus gel through interactions with carbohydrate side chains. TFF3 induces ciliogenesis and promotes airway epithelial cell differentiation. It does so through an epidermal growth factor receptor-dependent pathway. TFF3 overexpression is crucial for progression in mouse and human hepatocellular carcinogenesis. TFF3 is normally expressed in hepatocellular carcinoma and its expression is associated with tumor grade.

### Description

IL36G Human Recombinant, produced in *E. coli*, is a single, non-glycosylated polypeptide chain containing 192 amino acids (1-169 aa). It has a molecular mass of 21.1 kDa. IL36G is fused to a 23 amino acid His-tag at N-terminus and is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered, colorless solution.

### Formulation

The IL36G solution contains 20 mM Tris-HCl buffer (pH 8.0), 0.15 M NaCl and 10% glycerol.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Purity

Greater than 90% as determined by SDS-PAGE.

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

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