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PRODUCT DATA SHEET

Thyrostimulin beta subunit (Glycoprotein hormone beta 5) Human E. coli

Cat. No.: RD172106100
Type: Recombinant protein
Size 0.1 mg
Source: E. coli
Species: Human

Description
Total 120 AA. Mw: 13.34 kDa (calculated). UniProtKB acc.no. Q86YW7. N-terminal His-tag (14AA -highlighted).

Other names: GPHB5, GPB5, ZLUT1, GPHA2, GPA2, ZSIG51, TSH

Amino Acid Sequence
MRGSHHHHHH GMASASSGNL RTFVGCAVRE FTFLAKKPGC RGLRITTDAC WGRCETWEKP
ILEPPYIEAH HRVCTYNETK QVTVKLPNCA PGVDPFYTYP VAIRCDCGAC STATTECETI

Purity
> 95%

Endotoxin
< 0.1 EU/µg

Formulation
Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in 0.05M Acetate buffer pH 4

Reconstitution
Add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/mL. In higher concentrations the solubility of this antigen is limited. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

Shipping
At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage/Stability
Store the lyophilized protein at -80 °C. Lyophilized protein remains stable until the expiry date when stored at -80 °C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80 °C for long term storage. Reconstituted protein can be stored at 4 °C for a week.

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Quality Control

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.
LAL to determine quantity of endotoxin.

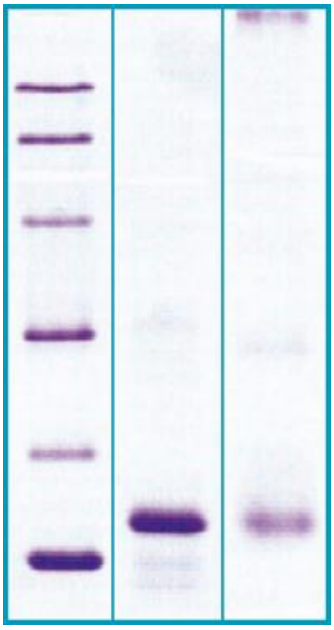
Applications

Western blotting

Note

This product is for research use only.

SDS-PAGE Gel



12% SDS-PAGE separation of Human Thyrostimulin beta subunit
1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa
2. reduced and heated sample, 2.5 µg / lane
3. non-reduced and non-heated sample, 2.5 µg / lane