

PRODUCT DATA SHEET

FGF2-STAB®

Cat. No.: RD172534000-5

Size: 5 mg

Source: E. coli

Type: Recombinant protein

Species: Human

Other Names:

FGF2, also known as basic FGF, bFGF

Description:

FGF2 is essential for cultivating human pluripotent stem cells, as it supports their pluripotent state. However, its thermal instability means daily media changes with fresh FGF2 are necessary — a time and resource challenging process.

Our stabilized variant maintains full biological activity for 20 days at 37 °C — compared to the wild type's half-life of just 10 hours — making cell culture maintenance more efficient and cost-effective.

Key Benefits of FGF2-STAB:

- Saves Time – No need for daily media changes thanks to enhanced thermostability.
- Saves Money – Reduced quantities achieve the desired cell proliferation effects.

Purity:

> 95 % by SDS-PAGE

Endotoxin:

< 1.0 EU/μg

Formulation:

White lyophilized (freeze-dried) powder, lyophilized from 20 mM potassium phosphate, 750 mM sodium chloride, pH 7.5.

Reconstitution:

Reconstitute to 1.0 mg/mL by addition of 5 ml of water to each vial. This solution can then be further diluted into other aqueous solutions. Store reconstituted sample at 2 °C to 8 °C for 1 week.

Storage/Stability:

Upon arrival store at -20°C to -80°C. Lyophilized FGF2-STAB® is stable for up to 12 months when stored at -20°C to -80°C.

Quality Control:

UV spectrophotometry at 280 nm to determine quantity of the protein.

Bioactivity.

SDS-PAGE to determine purity of the protein.

Endotoxin level determination.

Note:

This product is intended for research use only.