

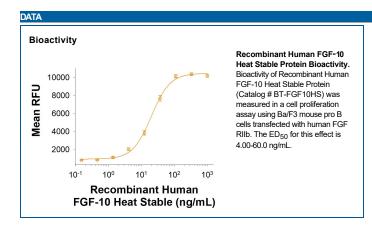
Recombinant Human FGF-10 Heat Stable

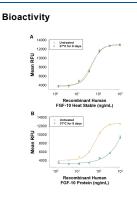
Catalog Number: BT-FGF10HS

DESCRIPTION	
Source	E. coli-derived human FGF-10 protein
	Prorietary engineered based on O15520

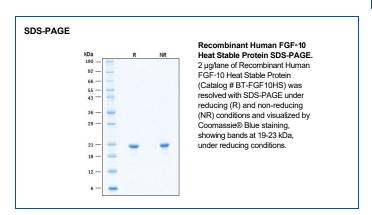
SPECIFICATIONS	
SDS-PAGE	19-23 kDa, under reducing conditions.
Activity	Measured in a cell proliferation assay using Ba/F3 mouse pro B cells transfected with human FGF RIIb. The ED ₅₀ for this effect is 4.00-60.0 ng/mL.
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Formulation	Lyophilized from a 0.2 µm filtered solution in MOPS, Na ₂ SO ₄ , EDTA and DTT with Trehalose. See Certificate of Analysis for details.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 250 μg/mL in water.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.	





Recombinant Human FGF-10 Heat Stable Bioactivity. Recombinant Human FGF-10 protein induces proliferation of Ba/F3 mouse pro-B cells transfected with human FGFR2b. (A) Recombinant Human FGF-10 Heat Stable (Catalog # BT-FGF10HS) or (B) Recombinant Human FGF-10 (Catalog # 345-FG) were either untreated or incubated at 37°C for 9 days in media. The heat-stable (HS) FGF-10 retained similar bioactivity after incubation compared to the untreated HS protein, indicating that the HS protein has increased thermal stability. In contrast, the wild-type (WT) FGF-10 protein showed a significant loss of activity following incubation, suggesting less thermal stability.



Rev. 7/30/2025 Page 1 of 2

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BACKGROUND

Fibroblast Growth Factors including FGF-10 are known to be intrinsically unstable, and prone to unfold at 37°C, quickly rendering the growth factor inactive. Our de novo Heat Stable FGF-10 has been engineered for thermostability to maintain activity at 37°C for at least 15 days. Heat-stable FGF-10 can enhance the consistency and efficacy of cell culture or organoid development. Heat Stable FGF-10 maintains sequence similarity, with >95% sequence homology to native FGF-10, making FGF-10 Heat Stable growth factor an easy replacement for culture.

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