

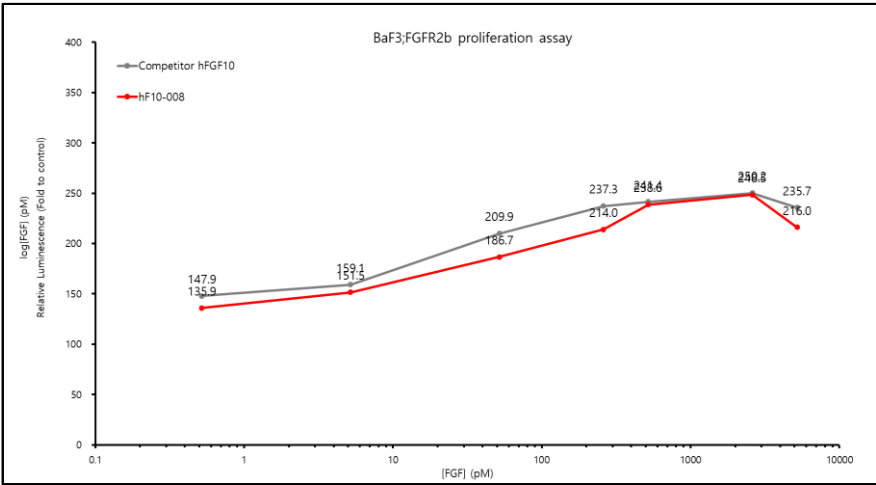
Lot# hF10-008

Material Information	
Product name	Recombinant Human Fibroblast Growth Factor-10
Source	Expressed in <i>E. coli</i> Derived in human FGF-10 (Q38-S208)
Tag	Hexa-histidine tag N-terminus
Predicted Molecular Mass	~ 21.6 kDa including tags
Formulation	500 µg/ml, a 0.22 µm filtered solution in PBS, 10% glycerol
Stability & Storage	Upon delivery aliquot and store at -80°C . Resuspend at >100 µg/ml in PBS containing 0.1% of BSA, prepare single use aliquots. Avoid freeze / thaw cycles.

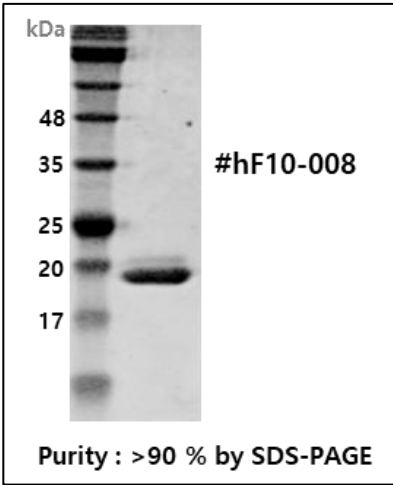
Specifications	
Purity	>90%, by SDS-PAGE
Endotoxin Level	<1.0 EU/µg protein (Pass) by the LAL method
Biological Activity	Measured in a cell proliferation analysis by its binding ability to FGFR2b tyrosin kinase expressed in Ba/F3 stable cell line. Ba/F3 is a pro-B murine cell line dependent on interleukin-3 (IL-3) for growth. FGFR2b is a high-affinity receptor for KGF, FGF10. As a result, cells can proliferate even with very little IL-3 in the presence of a ligand capable of binding to the receptor. FGF10 dependent cell viability assay was measured using CellTiter-Glo 2.0 (Promega).

Data

Cell based assay (BaF3 cell proliferation bioassay)



15% SDS-PAGE (3ug)



Purity : >90 % by SDS-PAGE

Recombinant Human FGF-10 (# hF10-008)

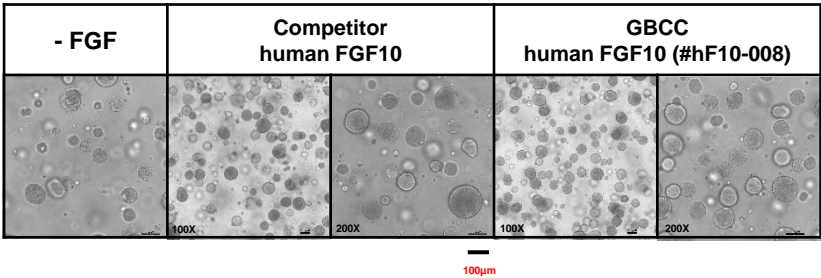
- An engineered Ba/F3 cells expressing FGFR2b depend on kinase activity to survive, resulting in cell proliferation with FGF-10 instead of IL-3.
- SDS-PAGE under reducing conditions and visualized by Coomassie Blue staining. The predicted molecular mass of 21.6 kDa.

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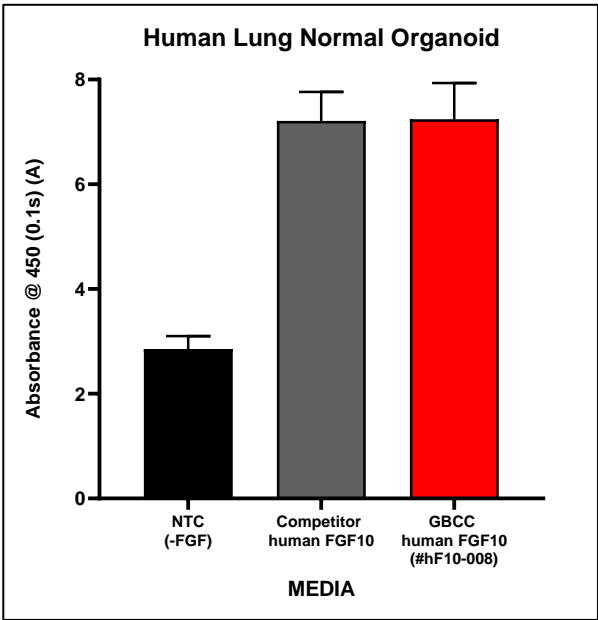
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Data

Human Normal Organoid Culture



Cell counting kit-8 (CCK-8 assay)



Application

Application to Organoid

Recombinant #hF10-008 was calculated and treated to have the same molarity as commercial human FGF10. When human recombinant FGF10 was treated with the same molar concentration, commercial human FGF10 and recombinant #hF10-008 were grown with the same morphology in normal Lung, Alveolar organoids, and similar organoid growth rates were observed.

Usage Statement

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

Quality Assurance

#hF10-008 is tested for function in supporting growth of human Lung normal organoids throughout three times passage. Normal Lung, Alveolar organoids grown in media containing commercial FGF10 and normal organoids grown in media containing recombinant protein #hF10-008 were confirmed with Cell Counting Kit-8 (CCK-8).