

## FGF2 (tuna) Growth Factor

## USER GUIDE

### Animal-free, carrier-free, purified tuna fibroblast growth factor 2

Catalog # LSR-120-10, LSR-120-50, LSR-120-100, LSR-120-1MG

### Product Description

FGF2 (basic fibroblast growth factor or bFGF) has been instrumental in the maintenance and differentiation of cells, particularly in serum-free workflows. Defined Bioscience's FGF2 (tuna) growth factor possesses the full native sequence for FGF2 derived from *T. albacares*, the yellowfin tuna, produced as an animal-free, carrier-free, and highly pure growth factor. Previous research has shown the value of cross-species homologs in cell culture applications, offering opportunities to use this growth factor in improving workflows across human and non-human cell line culture.

FGF2 (tuna) is recombinantly expressed in *E. coli* with an N-terminal hexahistidine tag and protease cleavage site. All stocks are provided in storage buffer (20 mM KPO4 pH 7.5, 500 mM NaCl) at 1 mg/mL. Sample purity is >95% as confirmed by SDS-PAGE (**Figure 1**).

### Contents and Storage

| Content                      | Catalog #                                              | Amount                                           | Storage                                | Shelf life |
|------------------------------|--------------------------------------------------------|--------------------------------------------------|----------------------------------------|------------|
| FGF2 (tuna)<br>Growth Factor | LSR-120-10<br>LSR-120-50<br>LSR-120-100<br>LSR-120-1MG | 1 x 10 µg<br>1 x 50 µg<br>1 x 100 µg<br>1 x 1 mg | Store at -20°C<br>protected from light | 1 year     |

### Biological Activity

FGF2 (tuna) has an expected EC<sub>50</sub> of less than 2 ng/mL, as determined in-house for all lots by an NIH-3T3 cell proliferation assay.

### General Use

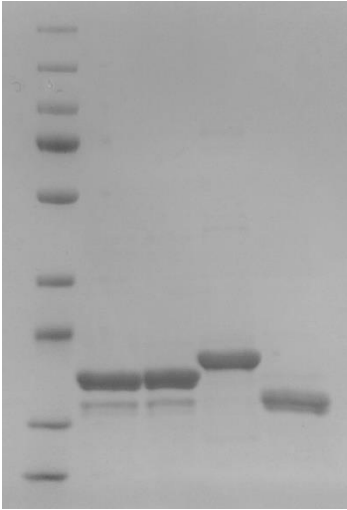
Each FGF2 variant included in this kit is supplied as a 1 mg/mL solution in storage buffer that can be incorporated into most standard buffer formulations as needed for downstream use. Dosage testing is recommended for optimal performance.

### Similar Products

In addition to this product, Defined Bioscience similarly offers:

- FGF2 (chicken) – Catalog # LSR-202
- FGF2-G3 (human) – Catalog # LSR-101
- FGF2-G3 (bovine/porcine) – Catalog # LSR-302
- FGF2 Screening Kit – Catalog # LSK-104

## Figures



**Figure 1. Representative SDS-PAGE analysis of purified FGF2 variants from Defined Bioscience.** Percentage purity determined by SDS-PAGE and protein identity by MS/MS analysis. Mass corresponds to the monomeric forms of each variant, with associated tags. RBG BroadRange MWL used in lane 1. Lanes 2-5 correspond to FGF2-G3 (human) LSR-101, FGF2-G3 (bovine/porcine) LSR-302, FGF2 (chicken) LSR-202, and FGF2 (tuna) LSR-120, respectively.

## Limited Product Warranty

Defined Bioscience and/or its affiliate(s) warrant their products as set forth in the Defined Bioscience General Terms and Conditions of Sale. If you have any questions, please contact Defined Bioscience at [info@definedbioscience.com](mailto:info@definedbioscience.com).

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