

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) Growth Factor	LSR-120-10	1 x 10 µg	Store at -20°C protected from light	1 year
	LSR-120-50	1 x 50 µg		
	LSR-120-100	1 x 100 µg		
	LSR-120-1MG	1 x 1 mg		

Biological Activity

FGF2 (tuna) has an expected EC50 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

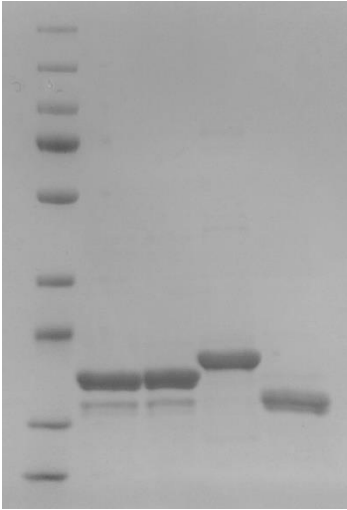


Figure 1. Representative SDS-PAGE analysis of purified FGF2 variants from Defined Bioscience. Percentage purity determined by SDS-PAGE and protein identity by MS/MS analysis. Mass corresponds to the monomeric forms of each variant, with associated tags. RBG BroadRange MWL used in lane 1. Lanes 2-5 correspond 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.