

## Recombinant Rat Keratinocyte Growth Factor-2/FGF-10

### (Rat KGF-2/FGF-10)

#### Product Information

Product Name	Cat#	Size
Recombinant Rat Keratinocyte Growth Factor-2/FGF-10 (Rat KGF-2/FGF-10)	91326ES08	5 µg
	91326ES60	100 µg
	91326ES76	500 µg

#### Product Description

Mature human FGF-10 is an approximately 20 kDa protein that contains a serine-rich region near its N-terminus (2, 3). It shares 93% and 96% amino acid sequence identity with mouse and rat FGF-10, respectively. Mature human FGF-10 is an approximately 20 kDa protein that contains a serine-rich region near its N-terminus (2, 3). It shares 93% and 96% amino acid sequence identity with mouse and rat FGF-10, respectively. FGF-10 is a stromal-derived paracrine growth factor considered to be important during embryogenesis. FGF-10 plays an important role in adipogenesis, at least partly by contributing to the expression of C/EBP  $\beta$  through an autocrine/paracrine mechanism. During cardiogenesis, FGF-10 is expressed in the anterior second heart field. Together with Fibroblast growth factor 8 (FGF-8), FGF10 promotes the proliferation of these cardiac progenitor cells that form the arterial pole of the heart.

#### Product Properties

<b>Synonyms</b>	FGF10, FGF-10, fibroblast growth factor 10, Keratinocyte growth factor 2, KGF2, KGF-2
<b>Accession</b>	P70492
<b>GeneID</b>	25443
<b>Source</b>	E.coli-derived rat FGF-10, Gln37-Ser215.
<b>Molecular Weight</b>	Approximately 20.0 kDa.
<b>AA Sequence</b>	QALGQDMVSP EATNSSSSSS SSSSSSFSS PSSAGRHVRS YNHLQGDVRS RKLFSFTKYF LKIEKNGKVS GTKKENCYPYS ILEITSVEIG VVAVKAINSN YYLAMNKKGK LYGSKEFNND CKLKERIEEN GYNTYASFNW QHNGRQMYVA LNGKGAPRRG QKTRRKNTSA HFLPMVVHS
<b>Tag</b>	None
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	>97% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	The ED <sub>50</sub> as determined by a cell proliferation assay using monkey 4MBr-5 cells is less than 120 ng/mL, corresponding to a specific activity of $> 8.3 \times 10^3$ IU/mg. Fully biologically active when compared to standard.
<b>Endotoxin</b>	< 1.0 EU per 1µg of the protein by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris, 500 mM NaCl, pH 7.4, 5% trehalose.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^\circ\text{C}$ . Further dilutions should be made in appropriate buffered solutions.

## **Shipping and Storage**

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

## **Cautions**

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!