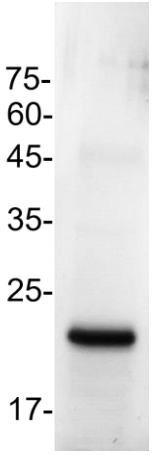
PRODUCT INFORMATION

GMP® FGF-2 (154 a.a.) (Fibroblast growth factor, basic), Human

v. 250301

Catalog number	C01092-GMP-1000
Package	1 mg
Description	FGF-2, also known as a basic fibroblast growth factor (bFGF) and FGF-β, is a growth factor and signaling protein encoded by the FGF-2 gene. FGF-2 has been shown in preliminary animal studies to protect the heart from injury associated with a heart attack, reducing tissue death and promoting improved function after reperfusion. FGF-2 are also involved in a variety of biological processes, including embryonic development, morphogenesis, tissue repair, tumor growth, and invasion. Additionally, FGF-2 is frequently used for a critical component of cell culture medium, e.g., human embryonic stem cell culture medium, serum-free culture systems.
Expression System	*Escherichia coli*
Species of Origin	Human
Affinity Tag	His Tag (N-term)
Sequence	Ala135-Ser288
Endotoxin level	<0.05 EU per 1 μg of the protein by the LAL method.
Activity	Measure by its ability to induce 3T3 cells proliferation. The ED_{50} for this effect is <1 ng/mL. The specific activity of recombinant human FGF-2 is approximately >5 x 10^5 IU/mg.
Purity	>98% as determined by SDS-PAGE analysis.
Mycoplasma	Not detected
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS containing 0.01% sarkosyl, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 0.5 mg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	This product is stable after storage at: • -20°C for 12 months in lyophilized state from date of receipt.

	• -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Specification	Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include: • Animal-free reagent and laboratory • Manufactured and tested under GMP guideline • Testing and traceability of raw material • Records of the maintenance and equipment calibration • Personnel training records • Batch-to-batch consistency • Documentation of QA control and process changes • Manufactured and tested under an ISO 13485:2016 certified quality management system • Stability monitor of product shelf-life
Reference	1. Bikfalvi A et al. (1997) Endocr Rev.18(1):26-45 2. Okada-Ban M et al. (2000) Int J Biochem Cell Biol. 32,3: 263-7. 3. Kashiwakura I, Takahashi TA. (2005) Leuk Lymphoma. 46,3: 329-33. 4. M. Simonato, S. Zucchini. (2009) Encyclopedia of Basic Epilepsy Research



SDS-PAGE analysis of GMP® FGF-2 (154 a.a.) Human

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