

PRODUCT INFORMATION

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

Catalog number	C01092-GMP-100 / C01092-GMP-1000
Package	100 µg / 1 mg
Description	<p>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.</p>
Source	<p><i>Escherichia coli</i> Animal-free reagent and laboratory Manufactured and tested under GMP guideline</p>
Sequence	<p>AAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREK SDPHIKLQLQAEERGVSISIKGVCANRYLAMKEDGRLLASKCVTDECFFFERLES NNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPGQKAILFLPMSAKS with polyhistidine tag at the N-terminus</p>
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
Activity	<p>Measure by its ability to induce 3T3 cells proliferation. The ED₅₀ for this effect is <1 ng/mL. The specific activity of recombinant human FGF-2 is approximately >5 x 10⁵ IU/mg.</p>
Purity	<p>>98% as determined by SDS-PAGE. Purified by Ni-NTA chromatography.</p>
Formulation	The protein was lyophilized from a solution containing 0.01% sarkosyl in 1X PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. This product is stable for one year upon receipt, when handled and stored as instructed. Upon reconstitution, protein

aliquots should be stored at -20°C or -80°C. Avoid repeated freeze/thaw cycles.

Note

Please use within one month after protein reconstitution.

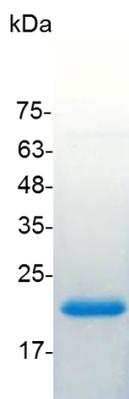
Specification

Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include:

- 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
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Reference

1. Allouche M, Bikfalvi A. (1995) *Prog Growth Factor Res.* 6,1: 35-48.
 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.
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SDS-PAGE analysis of Croyez GMP® FGF-2 (154 a.a.) Human

For Research Use Only. Not for use in diagnostic or therapeutic procedures.