

Recombinant Human FGF6 / Fibroblast Growth Factor 6,

Animal Free & Carrier Free

Cat #: C-CYP307

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

Product Overview

FGF6 is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. FGF6 is upregulated in injured skeletal muscle and is required for muscle regeneration. FGF6 inhibits the terminal differentiation of myoblasts and also cooperates with TGF-beta 2 to promote chondrogenesis in embryonic somites.

Product Information

Source: *Escherichia Coli*.

Purity: >98% as determined by SDS-PAGE. Ni-NTA chromatography.

Biological Activity: Measure by its ability to induce 3T3 cells proliferation. The ED₅₀ for this effect is <0.1 ng/mL. The specific activity of recombinant human FGF6 is > 1 x 10⁷ IU/mg.

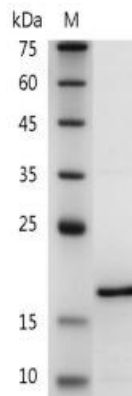
Endotoxin: <0.1 EU per 1 µg of the protein by the LAL method.

Amino acid sequence:

MGTRANNTLLDSRGWGTLLSRSRAGLAGEIAGVNWESGYLVGIKQRRLYCNVGIGFHLQVLPDGRISGTHEENPYSLLEISTVERGVVSLF
GVRSAFVAMNSKGRLYATPSFQECKFRETLPPNNYNAYESDLYQGTYIALSKYGRVKRGSKVSPIMTVTHFLPRI with polyhistidine

tag at the C-terminus.

Formulation: Lyophilized from a 20 mM sodium citrate solution, 0.2 M NaCl, pH 3.5.



SDS-PAGE analysis of recombinant human FGF6

Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H₂O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 µg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.