

Recombinant Human FGF2 Protein

Cat. No. FGF2-123H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Thermostable Fibroblast Growth Factor 2(K128N) is produced by our E.coli expression system and the target gene encoding Met1-Ser155 is expressed.
Species	Human
Source	E.coli
ProteinLength	1-155 a.a.
Description	Fibroblast growth factors (FGF) are a family of heparin-binding secreted proteins that stimulate cell proliferation and differentiation in a wide variety of tissues. FGFs play important roles in diverse biological functions both in vivo and in vitro, including mitogenesis, cellular migration, differentiation, angiogenesis, and wound healing. Human embryonic stem cell (hESC) cultures require FGF basic (also known as FGF-2 or bFGF) in cell culture media to remain in an undifferentiated and pluripotent state. Thermostable FGF basic was engineered for enhanced stability in culture media, without modification of its biological function. FGF basic is a required component of stem cell culture media for maintaining cells in an undifferentiated state. Because FGF basic is unstable, daily media changes are needed. The thermostable FGF basic that supports a 2-day media change schedule, so no media changes are required over a weekend. This thermostable FGF basic was more stable than FGF basic in biochemical studies, and maintained cell growth, pluripotency and differentiation potential with a 2-day feeding schedule.

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Form	Lyophilized from a 0.2 um filtered solution of 20mM Tris, 200mM NaCl, pH7.5.
Molecular Mass	Predicted Molecular Weight: 17.2kDa Apparent Molecular Weight: 17kDa, reducing conditions.
AA Sequence	Met1-Ser155
Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	>95%
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months. Always centrifuge tubes before opening. Do not mix by vortex or pipetting
Reconstitution	It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Quality Statement	Purity: greater than 95% as determined by reducing SDS-PAGE.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

GENE INFORMATION

Gene Name	FGF2 fibroblast growth factor 2 [Homo sapiens (human)]
Official Symbol	FGF2

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Synonyms	FGF-2; bFGF; FGFB; HBGF-2; BFGF; Fibroblast growth factor 2; Basic fibroblast growth factor; Heparin-binding growth factor 2
Gene ID	2247
mRNA Refseq	NM_002006.6
Protein Refseq	NP_001997.5
MIM	134920
UniProt ID	P09038
SDS-PAGE	