

FGF-2/ bFGF/ FGF-b (K128N), Human, Recombinant

货号 : PCK005

产品信息

别名	Fibroblast growth factor 2; FGF-2; Basic fibroblast growth factor; bFGF; Heparin-binding growth factor 2; HBGF-2; FGF2; FGFb
物种	Human
表达宿主	E.coli
序列信息	Met1-Ser155
检索号	BAG70135.1
分子量	17.2kDa
生物活性	Measured in a cell proliferation assay using BALB/c 3T3 cells. The ED50 for this effect is 0.75 ng/ml.

产品特性

纯度	>95% as determined by reducing SDS-PAGE.
内毒素	<1.0 EU/μg as determined by LAL test.
保存	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
运输	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
制剂	Supplied as a 0.2 μm filtered solution of 20mM Citrate, 10% Trehalose, 150mM NaCl, 0.04% PS80, 0.5mM EDTA, pH 5.5.



背景介绍

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.

SDS-PAGE

