

Animal, Bacterial & Viral Free - Low Endotoxin - Ultra Pure - High BioActivity
KGF/FGF7

Recombinant Human Keratinocyte Growth Factor HQ tagged

Catalog No.	CRK107A CRK107B	Quantity:	2 µg 10 µg
Alternate Names:	HBGF-7, FGF7		
Description:	Recombinant human KGF contains 164 amino acids and a 16 aa HQ tag. Total length is 180 aa.		
Gene ID:	2252		
Source:	<i>Hordeum vulgare</i> (barley grain). Barley grain's proteolytic activity is almost 50 times less than <i>E. coli</i> or mammalian cells. Barley seed has no human or animal viral contaminants, which is ideal for cell culture and <i>in vitro</i> and <i>in vivo</i> biological experiments.		
Molecular Weight:	Predicted MW = 21.2 kDa including HQ tag. The glycosylated recombinant protein migrates with an apparent MW = 30 kDa in SDS-PAGE.		
Formulation:	Lyophilized from a 0.2 µm sterile filtered solution of PBS, pH 7.2.		
Purity:	>98% by SDS-PAGE. Purified product carries no pyrogenic or pro-inflammatory contaminants, as assayed with monocyte activation test using custom human Multiplex Cytokine Assay measuring IL-6, TNF-alpha and IL-1beta induction.		
Endotoxin Level:	< 0.005 ng per µg of product (0.05 EU/µg) as measured by turbidimetric kinetic assay.		
Cross-Reactivity:	Considerable species cross-reactivity, including with mouse, monkey, and pig cells.		
Biological Activity:	Bioactivity is assayed by measuring the dose dependent effect of human KGF on proliferation of mouse BaF3. The ED ₅₀ for a typical batch of recombinant human KGF is 0.20 ng/ml.		
Specific Activity:	5.0 x 10 ⁶ U/mg		
Reconstitution:	Centrifuge vial prior to opening. First add sterile distilled water to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.		
Storage & Stability:	The lyophilized protein, though stable at room temperature for two weeks, is best stored at -20°C. Reconstituted protein should be used immediately or stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

