Recombinant Rat Keratinocyte Growth Factor-2/FGF-10 (rRtKGF-2/FGF-10)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	144-10
Source:	*Escherichia coli.*
Molecular Weight:	Approximately 20.0 kDa, a single non-glycosylated polypeptide chain containing 179 amino acids.
Quantity:	5μg/25μg/1000μg
AA Sequence:	QALGQDMVSP EATNSSSSSS SSSSSSSFSS PSSAGRHVRS YNHLQGDVRW RKLFSFTKYF LKIEKNGKVS GTKKENCPYS ILEITSVEIG VVAVKAINSN YYLAMNKKGK LYGSKEFNND CKLKERIEEN GYNTYASFNW QHNGRQMYVA LNGKGAPRRG QKTRRKNTSA HFLPMVVHS
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED_{50} as determined by a cell proliferation assay using monkey 4MBr-5 cells is less than 120 ng/ml, corresponding to a specific activity of > 8.3 × 10^3 IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM Tris, 500 mM NaCl, pH 7.4, 5 % trehalose.
Endotoxin:	Less than 1 EU/μg of rRtKGF-2/FGF-10 as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 ℃ . Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	**ChemWhat Limited in UK offers this branded product for research, development or further** evaluation purposes. **NOT FOR HUMAN USE**.

Rat Keratinocyte Growth Factor-2/FGF-10

FGF-10 was originally identified from rat embryos by homology-based polymerase chain reaction. Rat FGF-10 shares approximately 95 % amino acid sequence identity with human FGF-10. Among the FGF family members, FGF-10 is most closely related to FGF-7. The expression of FGF-10 transcripts has been shown to be most abundant in the embryo and adult lung. Recombinant FGF-10 preparations have been shown to be mitogenic for epithelial and epidermal cells but not fibroblasts. Based on its in vitro biological activities and in vivo expression pattern, FGF-10 has been proposed to play unique roles in the brain, in lung development, wound healing and limb bud formation.

CHEMWHAT LIMITED

https://www.chemwhat.com **Email: contact@chemwhat.com**