

Recombinant Murine Keratinocyte Growth Factor-2/FGF-10 (rMuKGF-2/FGF-10)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	124-10
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 19.5 kDa, a single non-glycosylated polypeptide chain containing 173 amino acids.
Quantity:	5µg/25µg/1000µg
AA Sequence:	QALGQDMVSQ EATNCSSSSS SFSSPSSAGR HVRSYNHLQG DVRWRRLLFSF TKYFLTIEKN GKVSGTKNED CPYSVLEITS VEIGVVAVKA INSNYYLAMN KKGKLYGSKE FNNDCKLKER IEENGYNTYA SFNWQHNGRQ MYVALNGKGA PRRGQKTRRK NNTSAHFLPMT IQT
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml, corresponding to a specific activity of > 2.0 × 10 ⁶ IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, 600 mM NaCl, pH 7.4, 1 mM mercaptoethanol.
Endotoxin:	Less than 1 EU/µg of rMuKGF-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 °C . 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. <ul style="list-style-type: none">● 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.

Murine Keratinocyte Growth Factor-2/FGF-10

Fibroblast growth factor 10 belongs to the fibroblast growth factor (FGF) family, which is involved in a variety of biological processes such as embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. Like most other FGF family members, FGF-10 also has a heparin-binding domain and plays an important role in the regulation of embryonic development, cell proliferation and cell differentiation. In addition, FGF-10 may take parts in wound healing and is required for normal branching morphogenesis. Recombinant murine FGF-10 contains a 173 amino acids and it shares 93 % and 90 % a.a. sequence identity with human and rat FGF-10.