

**Recombinant Human Keratinocyte Growth
Factor-2/FGF-10
(rHuKGF-2/FGF-10)
ChemWhat Technical Data Sheet (TDS)**

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| Catalog Number: | 104-10 |
| Source: | <i>Escherichia coli</i> . |
| Molecular Weight: | Approximately 19.1 kDa, a single, non-glycosylated polypeptide chain containing 169 amino acids. |
| Quantity: | 5µg/25µg/1000µg |
| AA Sequence: | LGQDMVSPEA TNSSSSSFSFSS PSSAGRHVRS YNHLQGDVWR RKLFSFTKYF LKIEKNGKVS GTKKENCYPYS 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 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, pH 7.4. |
| Endotoxin: | Less than 1 EU/µg of rHuKGF-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. |

Human 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 it plays an important role in the regulation of embryonic development, cell proliferation and cell differentiation. In addition, FGF-10 may play a role in wound healing and is required for normal branching morphogenesis. Recombinant human FGF-10 contains a 208 amino acids and it shares 92 % and 95 % amino acid sequence identity with murine and rat FGF-10. Defects in FGF-10 are the cause of autosomal dominant aplasia of lacrimal and salivary glands and lacrimo-auriculo-dento-digital syndrome.