ChemUhat Recombinant Human Fibroblast Growth Factor-4 A brand under Watson (rHuFGF-4)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	104-04
Source:	Escherichia coli.
Molecular Weight:	Approximately 19.8 kDa, a single non-glycosylated polypeptide chain containing 182 amino acids.
Quantity:	5µg/25µg/1000µg
AA Sequence:	GRGGAAAPTA PNGTLEAELE RRWESLVALS LARLPVAAQP KEAAVQSGAG
	DYLLGIKRLR RLYCNVGIGF HLQALPDGRI GGAHADTRDS LLELSPVERG VVSIFGVASR
	FFVAMSSKGK LYGSPFFTDE CTFKEILLPN NYNAYESYKY PGMFIALSKN GKTKKGNRVS
	PTMKVTHFLP RL
Purity:	> 96 % 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 $> 2.0 \times 10^6$ IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μ m filtered concentrated solution in 1 \times PBS, pH 7.4, 300 mM NaCl.
Endotoxin:	Less than 1 EU/µg of rHuFGF-4 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 500 mM NaCl to a concentration of 0.1-1.0 mg/mL. Stock solutions should be
	apportioned into working aliquots and stored at \leq -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.
	• 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 Fibroblast Growth Factor-4

FGF4, also named FGF-K and K-FGF, belongs to the fibroblast growth factor (FGF) family. By signaling through the FGF R1c, 2c, 3c and 4 receptors, FGF-4 has functions that maintain a population of progenitor cells in the epiblast that generates mesoderm, and contribute to the stem cell population that is incorporated in the tailbud. It is also required for axial elongation of the mouse embryo after gastrulation. Mature human FGF-4 (71-206 a.a.) shares 91 %, 82 %, 94 % and 91 % a.a. identity with murine, rat, canine and bovine FGF-4. Additionally, FGF-4 shares about 30 % sequence identity with the prototypical members of the FGF family.

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