PRODUCT DATA SHEET



Bioworld Technology,Inc.

Recombinant FGF-10, Mouse

Catalog Number: BK0034-1mg Source: Escherichia coli. Quantity: 1mg

Description:

Fibroblast Growth Factor-10 (FGF-10) is a mitogen mainly produced by mesenchymal stem cells in lung. FGF-10 belongs to the heparin binding FGF family, and is also known as Keratinocyte Growth Factor-2 (KGF-2). It shares homology with KGF, and both KGF and FGF-10 activate the receptor FGFR2-IIIb. However, unlike KGF, which induces the proliferation and differentiation of various epithelial cells, FGF-10 is an essential factor for the budding and branching morphogenesis during multi-organ development via mesenchymal-epithelial interactions. FGF-10 is crucial for lung and limb development and is regulated by Shh during early development. Recombinant mouse Fibroblast Growth Factor-10 (rmFGF-10) produced in E.coli is a single non-glycosylated polypeptide chain containing 148 amino acids. A fully biologically active molecule, rmFGF-10 has a molecular mass of 17.0 kDa analyzed by reducing SDS-PAGE and is obtained proprietary chromatographic techniques GenScript.

Molecular Weight:

17.0 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

ED50 < 10 ng/mL, measured by a cell proliferation assay using 4MBr-5 cells, corresponding to a specific activity of $> 1.0 \times 10^{5}$ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

SSAGRHVRSYNHLQGDVR-WRRLFSFTKYFLTIEKNGKVSGTKNEDCPYSVLE ITSVEIGVVAVKAINSNYYLAMNKKGKLYG-SKEFNNDCKLKERI-EENGYNTYASFNWQHNGRQMYVAL-NGKGAPRRGQKTRRKNTSAHFLPMTIQT

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O at 100 µg/mL.

Storage:

Lyophilized recombinant mouse Fibroblast Growth Factor-10 (rmFGF-10) remains stable up to 6 months at -80 $^{\circ}$ C from date of receipt. Upon reconstitution, rmFGF-10 remains stable up to 2 weeks at 4 $^{\circ}$ C or up to 3 months at -20 $^{\circ}$ C.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

Email: <u>info@bioworlde.com</u> Tel: 6123263284 Fax: 6122933841 Tel: 0086-025-86371664 Fax:0086-025-86213570