PRODUCT DATA SHEET

Bioworld Technology,Inc.

Recombinant FGF-8c, Mouse

Catalog Number: BK0046-1mg Source: Escherichia coli. Quantity: 1mg

Description:

Fibroblast Growth Factor 8c (FGF-8c) is a cytokine belonging to the heparin-binding FGF family, which has at least 23 members. In different species, e.g. human and mouse, FGF-8 has 8 different isoforms, from FGF-8a to FGF-8h. Different FGF-8 isoforms have different affinities to the receptors, thus conduct different signaling cascade pathways. FGF-8 has very widespread expression pattern during embryonic development, and is an organizer and inducer for gastrulation, somitogenesis, morphogenesis, and limb induction. However, FGF-8 is also a potential oncogene: in normal adult cells, FGF-8 has very low expression; on the other hand, FGF-8 is highly expressed in cancer cells of breast, prostate, and ovarian tumors. FGF-8 promotes tumor angiogenesis by increasing neovascularization, and induces osteoblastic differentiation.Recombinant mouse Fibroblast Growth Factor 8c (rmFGF-8c) produced in E.coli is a single non-glycosylated polypeptide chain containing 247 amino acids. A fully biologically active molecule, rmFGF-8c has a molecular mass of 28.2 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Molecular Weight:

28.2 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE and HPLC analyses.

Biological Activity:

ED50 < 150 ng/mL, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 6.7× 10^3 units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MQVRSAAQKRGPGAGNPAD-
TLGQGHEDRPFGQRSRAGKNFTNPAPNY-
PEEGSKEQRDSVLPKVTQRHVREQSLVTDQLSRR
LIRTYQLYSRTSGKHVQVLANK-
RINAMAEDGDPFAKLIVETDTFGS-
RVRVRGAETGLYICMNKKGKLIAK-
SNGKGKDCVFTEIVLENNYTALQNAKYEG-
WYMAFTRKGRPRKGSKTRQHQREVHFMKRL-
PRGHHTTEQSLRFEFLNY-
PPFTRSLRGSQRTWAPEPR

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O at 100 μg/mL.

Storage:

Lyophilized recombinant mouse Fibroblast Growth Factor 8c (rmFGF-8c) remains stable up to 6 months at -80 ℃ from date of receipt. Upon reconstitution, rmFGF-8c should be stable up to 2 weeks at 4 ℃ or up to 3 months at -20 ℃.

Usage:

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

Bioworld Technology, Inc.
1660 South Highway 100, Suite 500 St. Louis Park,MN 55416,USA.
Email: info@bioworlde.com
Tel: 6123263284 Fax: 6122933841

Bioworld technology, co, Ltd.
No 9, weidi road Qixia District Nanjing, 210046, P, R.China.
Email: info@biogot.com
Tel: 0086-025-86371664 Fax:0086-025-86213570