DATASHEET
Version 20181206

FGF-21, Mouse

Cat. No.: Z03290-50

Size: 50.0 ug

Synonyms: Fibroblast growth factor 21, FGF-21

Description:

Fibroblast growth factor-21 (FGF21) belongs to the large FGF family which has at least 23 members. Along with FGF-19/15 and FGF-23, FGF-21 is categorized as a member of the atypical FGF subfamily, as it must be complexed to the Klotho coreceptor in order to bind to the FGF receptors and activate the downstream signaling pathway. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. Recombinant Mouse Fibroblast Growth Factor-21(FGF-21) produced in *E.coli* is a single non-glycosylated polypeptide chain containing 182 amino acids. A fully biologically active molecule, rmFGF-21 has a molecular mass of 19.9 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Source: *E. coli*

Biological Activity: ED_{50} < 0.5 μg/ml,measured by a cell proliferation assay using NIH-3T3 cells in the presence of 1.25 μg/mL mouse Klotho and 10 μg/mL heparin, corresponding to a specific activity of > 2 × 10^3 units/mg.

Molecular Weight: 19.9 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH_2O or PBS at 100 μg/ml.

Purity: > 97% as analyzed by SDS-PAGE& HPLC.

Endotoxin Level: < 0.2 EU/μg, determined by LAL method.

Storage: Lyophilized recombinant Mouse Fibroblast Growth Factor-21(FGF-21), remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse FGF-21 should be stable up to 1 week at 4°C or up to 3 months at -20°C.

GenScript USA, Inc.
860 Centennial Ave. Piscataway, NJ 08854
Tel: 1-877-436-7274; 1-732-885-9188