Rev03
Update: Dec,14,2021

DATASHEET

FGF-8c, Mouse

Cat. No.: Z03075

Product Introduction

Species	Mouse
Protein Construction	Expressed with an N-terminal Met. **FGF-8c (Gln23-Arg268) Accession # P37237**
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED_{50} < 150.0 ng/ml, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 6.7×10^3 units/mg.
Expression System	E. coli
Apparent Molecular Weight	~28.2 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH_2O up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Background

Target Background : 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.

Synonyms : Fibroblast growth factor 8; FGF8; Androgen-induced growth factor; AIGF; Heparin-binding growth factor 8; HBGF-8; Fgf8

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