

AG-40A-0128

29-Oct-2010

FGF-23 (mouse):Fc (human) (rec.)

[Fibroblast Growth Factor 23; Tumor-derived Hypophosphatemia-inducing Factor]

AG-40A-0128-C010 10 µg
AG-40A-0128-C050 50 µg

Source/Host HEK 293 cells
MW ~50kDa (SDS-PAGE, full-length) FGF23 is cleaved between arg179 and ser 180 (~40kDa).
Sequence Signal peptide and mouse FGF-23 (aa 1-251) are fused at the C-terminus to the Fc portion of human IgG1.

Handling / Storage

Shipping BLUE ICE
Short Term Storage +4°C
Long Term Storage -20°C

After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.

Use / Stability

Working aliquots are stable for up to 3 months when stored at -20°C.

MSDS available at www.adipogen.com or upon request.

Product Specifications

Biological Activity Activates ERK and FRS2α phosphorylation in Klotho expressing cells.
Purity ≥90% (SDS-PAGE)
Formulation Liquid. 0.2µm-filtered solution in PBS.
Endotoxin Content <0.1EU/µg purified protein (LAL test; Lonza).

Other Product Data

UniProt link Q9EPC2: [FGF-23 \(mouse\)](#)

Product Description

FGF-23 (Fibroblast growth factor 23) is a regulator of phosphate homeostasis. It upregulates EGR1 expression in the presence of KLBy. Acts directly on the parathyroid to decrease PTH secretion. Regulates the vitamin-D metabolism. Negatively regulates osteoblast differentiation and matrix mineralization. Defects in FGF-23 are the cause of autosomal dominant hypophosphatemic rickets (ADHR) and of hyperphosphatemic familial tumoral calcinosis (HFTC).

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

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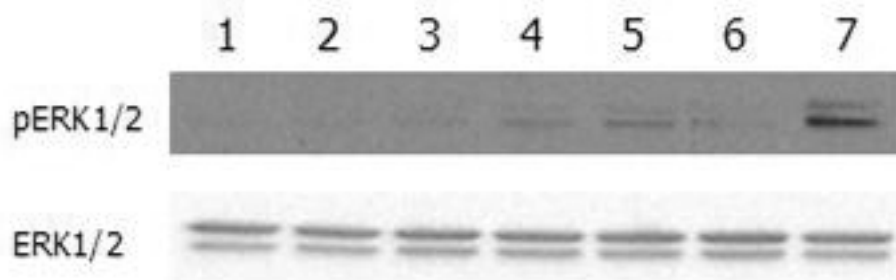


Figure 1: ERK and FRS2 α phosphorylation induced by FGF-23 in Klotho expressing cells.

Klotho expressing HEK 293EBNA cells were serum starved for 16hr and then stimulated with mFGF-23-Fc (Prod. No. AG-40A-0128), and FGF-b (100ng/ml) (positive control) for 10 min, respectively. Antibodies against pFRS2 α , pERK1/2 & total ERK1/2 were used for immunoblotting.

Lane 1: Mock (non-treated)

Lane 2: Klotho + mFGF23-Fc 1ng/ml

Lane 3: Klotho + mFGF23-Fc 10ng/ml

Lane 4: Klotho + mFGF23-Fc 100ng/ml

Lane 5: Klotho + mFGF23-Fc 500ng/ml

Lane 6: Klotho + mFGF23-Fc 1000ng/ml

Lane 7: Klotho + 100ng/ml FGF-b

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