

Datasheet for ABIN7566149
FGF21 Protein (AA 30-210) (DYKDDDDK Tag)



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Overview

Quantity:	10 µg
Target:	FGF21
Protein Characteristics:	AA 30-210
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGF21 protein is labelled with DYKDDDDK Tag.

Product Details

Purpose:	FGF-21 (mouse) (rec.)
Cross-Reactivity:	Mouse
Characteristics:	The extracellular domain of mouse FGF-21 (aa 30-210) is fused at the N-terminus to a DYKDDDDK Tag.
Purity:	>90 % (SDS-PAGE)
Sterility:	Sterile filtered
Endotoxin Level:	<0.06EU/µg purified protein (LAL test, Lonza).

Target Details

Target:	FGF21
Alternative Name:	FGF-21 (FGF21 Products)

Target Details

Background:	<p>Fibroblast Growth Factor 21</p> <p>Fibroblast growth factor 21 (FGF-21) is a member of the fibroblast growth factor family and has been identified as an important regulator of energy metabolism connecting nutrition, growth, reproduction and longevity. FGF-21 lacks the heparin-binding domain of most FGF proteins, allowing its secretion. FGF-21 is abundantly expressed in adipose tissues, liver and pancreas. In adipose tissue, FGF-21 promotes glucose uptake and oxidation and in liver it replenishes on fasting the tissues with fuel on low nutritional supply. It also induces lipolysis and ketogenesis. FGF-21 acts through FGF receptors (FGFR) associated with the auxiliary protein beta-Klotho. Recently, FGF-21 has been reported to interact directly with the brain circadian clock to coordinate activity and reproduction as part of the adaptation to fasting. Due to its multiple functions of normalizing glucose, lipid and energy homeostasis, FGF-21 represents an attractive novel therapy for type 2 diabetes mellitus and obesity.</p>
Molecular Weight:	~23kDa (SDS-PAGE)
NCBI Accession:	NP_064397
Pathways:	RTK Signaling

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Buffer:	Lyophilized from 0.2µm-filtered solution in 1X PBS.
Handling Advice:	Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution.
Storage:	4 °C, -20 °C
Storage Comment:	<p>Short Term Storage: +4°C</p> <p>Long Term Storage: -20°C</p> <p>Use & Stability: Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.</p>