Datasheet for ABIN7319826

FNDC5 Protein (His tag)

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1 Image

Overview

Quantity:	50 µg
Target:	FNDC5
Origin:	Human, Mouse, Rat
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FNDC5 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human/Mouse/Rat Irisin/FNDC5 (N-6His)
Sequence:	Asp32-Glu143
Characteristics:	Recombinant Human/Mouse/Rat Fibronectin Type III Domain-containing Protein 5 is produced by our Mammalian expression system and the target gene encoding Asp32-Glu143 is expressed with a 6His tag at the N-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	FNDC5
Alternative Name:	Irisin/FNDC5 (FNDC5 Products)
Background:	Background: Fibronectin type III domain-containing protein 5, the precursor of irisin, is a protein that is encoded by the FNDC5 gene.Human Irisin is synthesized as a 212 amino acid (aa)

Target Details

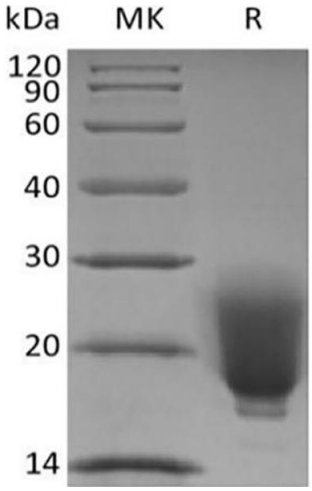
	precursor encoding a type 1 transmembrane protein with a 121 aa extracellular domain (ECD), a 21 aa transmembrane domain, and a 39 aa cytoplasmic domain. The ECD of Irisin contains a fibronectin type III domain and multiple glycosylation sites. The ECD is proteolytically cleaved to release the 112 aa soluble Irisin hormone into circulation.Mature human, mouse share 100 % sequence identity.Irisin induces expression of peroxisome proliferatoractivated receptor γ coactivator 1α (PGC1α) and uncoupling protein1(UCP1), mitochondrialassociated metabolic proteins. Irisin induces the transition of white adipose tissue into more metabolically active beige adipose tissue.Irisin also regulates neuronal cell differentiation and neurite outgrowth in the brain and is involved in the differentiation of osteoblasts. Synonym: Fibronectin type III domain-containing protein 5, Fibronectin type III repeat-containing protein 2, Irisin, FNDC5
Molecular Weight:	13.4 kDa
UniProt:	Q8NAU1
Pathways:	Hormone Activity, Brown Fat Cell Differentiation, Positive Regulation of fat Cell Differentiation

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting
Image 1.

