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Recombinant Human/Mouse/Rat Irisin/FNDC5 Protein (His Tag)

Catalog Number: PKSH033461

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Species Human/Mouse/Rat

Source HEK293 Cells-derived Human/Mouse/Rat Irisin/FNDC5 protein Asp32-Glu143, with an

C-terminal His

Calculated MW 13.4 kDa
Observed MW 20-28 kDa
Accession Q8NAU1

Bio-activity Not validated for activity

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage 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.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

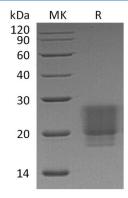
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

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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) 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 (PGC1 α) 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.