

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



Catalog Number:PKSH033806 1 Publications

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

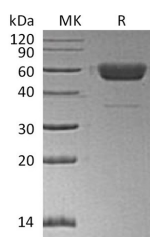
Description

| | |
|------------------------------------|--|
| Synonyms | Fibronectin type III domain-containing protein 5;Fibronectin type III repeat-containing protein 2;Irisin;FNDC5 |
| Species | Human/Mouse/Rat |
| Expression Host | HEK293 Cells |
| Sequence | Asp32-Glu143 |
| Accession | Q8NAU1 |
| Calculated Molecular Weight | 39.7 kDa |
| Observed molecular weight | 50-60 kDa |
| Tag | C-Fc |

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% Tween80 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

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 proliferator-activated receptor γ coactivator 1 α (PGC1 α) and uncoupling protein 1 (UCP1); mitochondrial-associated metabolic proteins. Irisin induces the transition of white adipose tissue into more metabolically

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active beige adipose tissue. Irisin also regulates neuronal cell differentiation and neurite outgrowth in the brain and is involved in the differentiation of osteoblasts.

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