

产品名称: Recombinant Human/Mouse/Rat Irisin (C-6His)  
产品货号: PHV1015

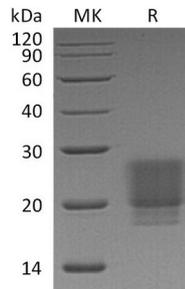


## 概述 (Summary)

英文全称	Irisin/FNDC5
纯度 (Purity)	Greater than 95% as determined by reducing SDS-PAGE
内毒素 (Endotoxin level)	<1 EU/ $\mu$ g as determined by LAL test.
蛋白构建 (Construction)	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 C-terminus.
Accession #	Q8NAU1
表达宿主 (Host)	Human Cells
种属 (Species)	Human/Mouse/Rat
预测分子量 (Predicted MW)	13.4 KDa
制剂 (Form)	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4.
运输方式 (Shipping)	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存 (Stability &Storage)	Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$ , stable for one year after receipt. Reconstituted protein solution can be stored at $2-8^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.
复溶 (Reconstitution)	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## 电泳图 (SDS-PAGE image)

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## 背景 (Background)

### 分子别名 (Alternative Names)

Fibronectin type III domain-containing protein 5; Fibronectin type III repeat-containing protein 2; Irisin; FNDC5

### 背景介绍 (References)

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  $\gamma$  coactivator 1 $\alpha$  (PGC1 $\alpha$ ) and uncoupling protein 1 (UCP1), mitochondrial-associated 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.

## 注意事项 (Note)

For research use only .