

Irisin, Active, human recombinant protein
Fibronectin Type III Domain-containing Protein 5, FNDC5 (cleaved); Fibronectin Type III
Repeat-conta
Catalog # PBV11409r

Specification

Irisin, Active, human recombinant protein - Product info

Primary Accession [Q8NAU1](#)
Calculated MW ~13.00 kDa KDa

Irisin, Active, human recombinant protein - Additional Info

Gene ID	252995
Gene Symbol	FNDC5
Other Names	
Fibronectin Type III Domain-containing Protein 5, FNDC5 (cleaved); Fibronectin Type III Repeat-containing Protein 2, FRCP2 (cleaved).	
Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE ; ≥95%
Assay2&Purity2	N/A;
Recombinant	Yes
Sequence	Full-length untagged Irisin (112 amino acids)

Target/Specificity

Irisin

Application Notes

Reconstitute to 0.1 mg/ml with sterile water

Format

Lyophilized powder

Storage

-20°C; Lyophilized from PBS.

Irisin, Active, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

Irisin, Active, human recombinant protein - Images

Irisin, Active, human recombinant protein - Background

Irisin is a recently discovered exercise-induced myokine, which is secreted by skeletal muscles and produced by cleavage of the FNDC5. Studies show that Irisin stimulates mitochondria uncoupling protein-1 (UCP-1; a regulator of thermogenic capability of brown fat) expression, so Irisin can upregulate white to brown fat conversion and improve systemic metabolism by increasing energy expenditure. Hence, Irisin is a potential new drug target in the study of metabolic disorders, such as obesity and type 2 diabetes mellitus (T2DM). Moreover, FNDC5-like receptors are conserved in vertebrates and critical for neuronal development.

Irisin, Active, human recombinant protein - References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Bostrom P.,et al.Nature 481:463-468(2012).