

Irisin recombinant protein

Human Irisin

CATALOG #
AAA79324

HOST
CHO cells

PRODUCT SYNONYMS

Irisin; Human Irisin; Fibronectin type III domain-containing protein 5 (FNDC5); Fibronectin type III repeat-containing protein 2 (FRCP2); Irisin recombinant protein

PRODUCT SPECIFICATIONS

Host	CHO cells
Purity/Purification	> 90% by SDS-PAGE & HPLC analyses
Form/Format	Lyophilized (10mM Sodium Phosphate, pH 7.5)
Sequence	DSPSAPVNVTVRHLKANSVVSVDVLEDEVVIGFAISQQK KDVRMLRFIQ EVNTTTRSCA LWDLEEDTEY IVHVQAISIQ GQSPASEPVL FKTPREAEM ASKNKDEVTM KE
Endotoxin Level	< 0.1ng/ug of protein (1 EU/ug)
Length (aa)	224
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1 – 1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Preparation and Storage	The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C. Avoid repeated freeze and thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for Irisin recombinant protein	Irisin is a proteolytic hormone released into circulation by skeletal muscle tissue during acute exercise, and is a derivative of the cleaved plasma membrane protein Fibronectin type III domain-containing protein 5 (FNDC5). Found in muscle tissue, FNDC5 is synthesized at increased levels during exercise as a result of the overexpression of the exercise-responsive transcriptional co-activator PGC-1alpha (peroxisome proliferator-activated receptor-gamma co-activator-1alpha). Like its parent polypeptide, Irisin can induce the browning of subcutaneous adipocytes, or the conversion of white adipose tissue (WAT or white fat) into brown (or beige) adipose tissue (BAT or brown fat). Given that brown fat can undergo thermogenesis, or the physiologic process of heat production, Irisin contributes to the metabolic process by increasing thermogenic function and glucose homeostasis. Irisin, thus, represents a link between exercise and burning of fats and/or sugars, and consequently may have relevance in the development of new treatments for diabetes and obesity. Recombinant Human/Murine/Rat Irisin is a glycosylated homodimer of 224 amino acid residues, whose monomer consists of 112 amino acid residues corresponding to the active portion of the 121-amino-acid length Irisin extracellular domain. Recombinant Human/Murine/Rat Irisin, appears to form a non-disulfide linked oligomeric structure in solution, has a calculated theoretical molecular weight of 25.2 kDa, but migrates at an apparent molecular weight of 28 kDa by SDS-PAGE analysis under reducing conditions due to glycosylation.
Product Categories/Family for Irisin recombinant protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	98961138
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NCBI GeneID	252995
NCBI Accession #	NP_715637.2
NCBI GenBank Nucleotide #	NM_001040653.3
UniProt Accession #	Q8NAU1 ; Q6DKI8 ; Q7L3L1 ; Q8NAU2 ; C5J0H9 ; Q2QGD7
Molecular Weight	28 kDa
NCBI Official Full Name	zinc finger protein ZXDC isoform 2
NCBI Official Synonym Full Names	ZXD family zinc finger C
NCBI Official Symbol	ZXDC
NCBI Official Synonym Symbols	ZXDL
NCBI Protein Information	zinc finger protein ZXDC
UniProt Protein Name	Zinc finger protein ZXDC
UniProt Gene Name	ZXDC
UniProt Synonym Gene Names	ZXDL

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/zxdc-recombinant-protein-cho-cells/79324>