

## Recombinant Human/Mouse/Rat Irisin

(C-Fc)

Catalog #	EPT075	
Expression Host	Human Cells	
DESCRIPTION	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 Fc tag at	
	the C-terminus.	
Accession	Q8NAU1	
Synonyms	Fibronectin type III domain-containing protein 5;	
	Fibronectin type III repeat-containing protein 2; Irisin;	
	FNDC5	
Mol Mass	39.7 KDa	
AP Mol Mass	50-60 KDa, reducing conditions	
Purity	Greater than 95% as determined by reducing	
	SDS-PAGE.	
Endotoxin	Less than 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL	
	test.	



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_	FORMULATION	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH
		7.4.
and the second s	RECONSTITUTION	Always centrifuge tubes before opening.Do not mix by
		vortex or pipetting.
		It is not recommended to reconstitute to a
		concentration less than 100µg/ml.
		Dissolve the lyophilized protein in distilled water.
		Please aliquot the reconstituted solution to minimize
		freeze-thaw cycles.
	SHIPPING	The product is shipped at ambient temperature.
		Upon receipt, store it immediately at the temperature
		listed below.
	STORAGE	Lyophilized protein should be stored at < -20 $^{\circ}$ C,
		though stable at room temperature for 3 weeks.
		Reconstituted protein solution can be stored at 4-7°C
		for 2-7 days.
		Aliquots of reconstituted samples are stable at $< -20^{\circ}$
		C for 3 months.
	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
THE RESUL		



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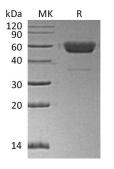
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transmembrane protein with a 121 aa extracellular domain (ECD), a 21 aa transmembrane domain, and a 39 aa cytoplasmic domain. The ECD of Irisin contains a fibronectin type III domain and multiple glycosylation sites. The ECD is proteolytically cleaved to release the 112 aa soluble Irisin hormone into circulation.Mature human, mouse share 100% sequence identity.Irisin induces expression of peroxisome proliferatoractivated receptor  $\gamma$  coactivator 1 $\alpha$  (PGC1 uncoupling protein1(UCP1), α ) and 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.



## SDS-PAGE



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