

ARG70323 Human Irisin recombinant protein (Active) (His-tagged, C-ter)

Package: 50 µg

Store at: -20°C

Summary

Product Description	HEK293 expressed, His-tagged (C-ter) Active Human Irisin recombinant protein.
Tested Reactivity	Hu
Tested Application	FuncSt, SDS-PAGE
Target Name	Irisin
Species	Human
A.A. Sequence	Asp32 - Glu143 of Human Irisin (NP_715637.2) with 6X His tag at the C-terminus.
Expression System	HEK293
Activity	Active
Activity Note	Measured by its ability to induce p38 MAPK activation in 3T3-L1 mouse embryonic fibroblast adipose-like cells. 0.1 µg/ml of Recombinant Human Irisin can effectively induce p38 MAPK activation.
Alternate Names	irisin; FRCP2; Fibronectin type III domain-containing protein 5; Fibronectin type III repeat-containing protein 2

Properties

Form	Powder
Purification Note	0.22 µm filter sterilized. Endotoxin level is 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
Reconstitution	Reconstitute to a concentration of 0.1 - 0.5 mg/ml in sterile distilled water.
Storage instruction	For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

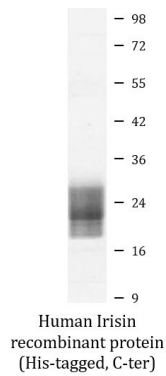
Gene Symbol	FND5
Gene Full Name	fibronectin type III domain containing 5
Background	This gene encodes a secreted protein that is released from muscle cells during exercise. The encoded protein may participate in the development of brown fat. Translation of the precursor protein initiates at a non-AUG start codon at a position that is conserved as an AUG start codon in other organisms. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]
Function	[Irisin]: Contrary to mouse, may not be involved in the beneficial effects of muscular exercise, nor in the induction of browning of human white adipose tissue. [UniProt]
Calculated Mw	24 kDa
PTM	The extracellular domain is cleaved and released from the cell membrane.

N-Glycosylated. [UniProt]

Cellular Localization

Cell membrane; Single-pass type I membrane protein. Peroxisome membrane; Single-pass type I membrane protein. Note=Imported in peroxisomes through the PEX5 receptor pathway. Irisin: Secreted. Note=Detected in the blood of individuals subjected to endurance exercise. [UniProt]

Images



ARG70323 Human Irisin recombinant protein (Active) (His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70323 Human Irisin recombinant protein (Active) (His-tagged, C-ter).