

Irisin Protein, Human/Mouse/Rat (HEK293, N-His)

Cat. No.:	HY-P72534
Synonyms:	Fibronectin type III domain-containing protein 5; Irisin; FNDC5; FRCP2
Species:	Human;Rat;Mouse
Source:	HEK293
Accession:	Q8NAU1 (D32-E143)
Gene ID:	252995
Molecular Weight:	18-28 kDa

PROPERTIES

AA Sequence	<p>D S P S A P V N V T V R H L K A N S A V V S W D V L E D E V V I G F A I S Q Q K</p> <p>K D V R M L R F I Q E V N T T T R S C A L W D L E E D T E Y I V H V Q A I S I Q</p> <p>G Q S P A S E P V L F K T P R E A E K M A S K N K D E V T M K E</p>
Biological Activity	Measured by its ability to induce p38 MAPK activation in 3T3 L1 mouse embryonic fibroblast adipose-like cells. 1 µg/mL of Recombinant Human Irisin can effectively induce p38 MAPK activation.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Irisin protein, despite its observed effects in mice, may not have a significant role in the beneficial outcomes linked to muscular exercise or the stimulation of browning in human white adipose tissue. While previous studies in mice have suggested that irisin is involved in these processes, recent research in humans has cast doubt on its relevance. It is unclear whether irisin has similar effects in humans, and further investigation is required to determine its precise function and potential implications in exercise-induced physiological changes and metabolic regulation in humans.
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Caution: Product has not been fully validated for medical applications. For research use only.

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