Product Data Sheet

Product Name: Irisin (human, recombinant)
Cat. No.: GB40243

Chemical Properties

Cas. No.	9037-90-5		
Formula		M.Wt	12.4 kDa
Solubility		Storage	-80°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

Formulation: 50 mM Tris pH 8.0, 150 mM sodium chloride, and 20% glycerol

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Amino Acids:1-111 (full-length, amino acids 32-143 of FNDC5)

Physical exertion and exercise are the primary defenses against obesity, insulin resistance, and diabetes. The transcriptional co-activator peroxisome proliferator-activated receptor C coactivator 1α (PGC-1α), regulates mitochondrial biogenesis and function. Expression of the membrane protein Fibronectin type III domain-containing protein 5 (FNDC5) is stimulated in muscle by PGC-1α in response to exercise. FNDC5 is proteolytically cleaved and secreted as the hormone peptide irisin (named after the Greek goddess messenger Iris). Irisin has been shown to convert white adipose fat to brown adipose fat upon physical exertion. Brown adipose fat allows for mitochondrial uncoupling leading to thermogenetic programs and heat expenditure. The physiological responses induced by the effects of irisin have the potential to increase weight loss and reduce insulin resistance and obesity.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA