
Product Data Sheet

Product Name: FNDC5 Human
 Cat. No.: GP23505
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Fibronectin type III domain-containing protein 5; Fibronectin type III repeat-containing protein; Fibronectin Type III Repeat-Containing Protein 2; Irisin; FNDC5; FRCP2.		
Amino Acid Sequence	MKHHHHHHASDSPSAPVNVT VRHLKANSV VSWDVLEDEV VIGFAISQQK KDVRMLRFIQ EVNTTTRSCA LWDLEEDTEY IVHVQAISIQ GQSPASEPVL FKTPREAEM ASKNKDEVTM KE.		
Solubility	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. FNDC5 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	FNDC5 filtered (0.4 μm) and lyophilized from 0.5mg/ml in phosphate buffered saline.		

Introduction

Fibronectin Type III Domain Containing 5 (Irisin) is a newly discovered hormone, secreted into circulation by muscle, which acts on white adipocytes and promotes WAT "browning". r-Irisin can reduce body weight and cause induction of brown adipocyte in vivo, including a capacity for thermogenic energy expenditure mediated by uncoupling protein 1 (UCP-1). Irisin mature protein is comprised of 110 amino acid residues and two potential glycosylation sites. High levels of Irisin can be found in the heart whereas Very low expression is found in the colon, pancreas and spleen, if any.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a

Caution: Product has not been fully validated for medical applications. For research use only.

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limited period of time; it does not show any change after two weeks at 4°C .

Background

FNDC5 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (a.a 32-143) containing 122 amino acids including a 10 a.a N-terminal His tag. The total molecular mass is 13.8kDa (calculated).

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