

## Product Data Sheet

Product Name: FNDC5 Human, Yeast  
 Cat. No.: GP23506  
 Batch No.: 1

### Product Data

Purity >98% Source Yeast.  
 Physical Appearance solid Shipping Condition Shipped at Room temp.

Synonyms Fibronectin type III domain-containing protein 5; Fibronectin type III repeat-containing protein 2; Irisin; FRCP2; FNDC5.

Amino Acid Sequence 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\_K\_I\_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\_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.

Solubility It is recommended to reconstitute the lyophilized Fibronectin Type III Domain Containing 5 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Formulation The FNDC5 was lyophilized from 0.45 µm filtered solution in PBS.

### 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.

### Biological Activity

The biological activity of recombinant human irisin was measured by the ability to induce UCP-1 expression of adipocytes. The specific activity is 10ng/ml.

### Stability

Lyophilized Fibronectin Type III Domain Containing 5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution FNDC5 should be stored at 4°C between 2-7 days and for future use below -18°C .Please prevent freeze-thaw cycles.

### Background

Fibronectin Type III Domain Containing 5 Human Recombinant produced in yeast is a glycosylated, polypeptide chain containing 110 amino acids and having a molecular mass of 20-25 kDa.FNDC5 is purified by proprietary chromatographic techniques.

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

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