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FNDC5 Human, Yeast

Fibronectin Type III Domain Containing 5 Human Recombinant, Yeast
RCP0866

Product Overview

Name	FNDC5 Human, Yeast

Description

Fibronectin Type III Domain Containing 5 Human Recombinant, Yeast

Accession (Primary)	Q8NAU1

Synonyms

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

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.

Source

Yeast.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

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

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.

Purity

Greater than 98.0% as determined by SDS-PAGE.

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__D

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_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.

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.

Solubility

It is recommended to reconstitute the lyophilized Fibronectin Type III Domain Containing 5 in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

FNDC5 Human, Yeast is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q8NAU1)