

## 32-3839: FNDC5 Recombinant Protein

**Alternative Name :** Fibronectin type III domain-containing protein 5, Fibronectin type III repeat-containing protein, Fibronectin Type III Repeat-Containing Protein 2, Irisin, FNDC5, FRCP2.

### Description

Source : Escherichia Coli. 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). 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.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** FNDC5 filtered (0.4µm) and lyophilized from 0.5mg/ml in phosphate buffered saline.  
**Storage condition :** 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 limited period of time; it does not show any change after two weeks at 4°C.  
**Amino Acid :** MKHHHHHSHASDPSAPVNVTVRHLKANSVAVSWDVLLEDEVVIGFAISQQK KDVRMLRFIQEVNNTTTRSCALWDLEEDTEYIVHVQAIQIQGQSPASEPVLFKTPREAQEKMASKNKDEVTKMKE.

### Application Note

It is recommended to add 200µl 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.

