

32-8703: Recombinant Human/Mouse/Rat Irisin/FNDC5 (C-Fc)

Gene : FNDC5
Gene ID : 252995
Uniprot ID : Q8NAU1

Description

Source: Human Cells.
MW :39.7kD.

Recombinant Human/Mouse/Rat Irisin is produced by our Mammalian expression system and the target gene encoding Asp32-Glu143 is expressed with a Fc tag at the C-terminus. FNDC5 is a membrane protein comprised by a short cytoplasmic domain, a transmembrane segment, and an ectodomain consisting of a fibronectin type III (FNIII) domain. The ectodomain has been proposed to be cleaved to a soluble peptide hormone named "irisin". Irisin is secreted from muscle in response to exercise, and may regulate energy metabolism, stem cell differentiation, and neuronal development. The circulating irisin converts white fat into the more thermogenic beige fat, and may mediate some beneficial effects of exercise in humans and the potential for generating weight loss. In mice, expression of Irisin has been shown to regulate obesity and diabetes. A similar function is suggested in human.

Product Info

Amount : 10 µg / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
Amino Acid : DSPSAPVNVTVRHLKANSVVSWDVLDEEVVIGFAISQKQKDVRLRFIQEVNTTTRSCALWDLEEDTEYIVHV
QAISIQQSPASEPVLFKTPREAEMASKNKDEVTMKEVDDIEGRMDEPKSCDKTHTCPPCPAPELLGGPSVFL
FPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN
GKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENN
YKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.