

## FNDC1 Protein, Human, Recombinant (His)

### General Information

Synonyms:	FNDC2;MEL4B3;KIAA1866
Protein Construction:	Ala33-Thr457
Species:	Human
Expression Host:	E. coli
Accession:	Q4ZHG4-1
Molecular Weight:	48.68 kDa (predicted). The protein migrates to 50-55 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 $\mu$ m filtered solution in 20 mM PB, 500 mM NaCl, 10% Glycerol.

### Preparation and Storage

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Fibronectin type III domain-containing protein 1 (FNDC1) is a protein that contains a major component of the structural domain of fibronectin. FNDC1 was highly upregulated and acted as an oncogene in BC. Therefore, targeting FNDC1 may be a potential strategy for the treatment of BC.

#### Reference

Yunwen C, et al. The silencing of FNDC1 inhibits the tumorigenesis of breast cancer cells via modulation of the PI3K/Akt signaling pathway. Mol Med Rep. 2021 Jun;23(6):479. doi: 10.3892/mmr.2021.12118. Epub 2021 Apr 26. PMID: 33899120; PMCID: PMC8097762.

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Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481