

FNDC4 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P76935
Synonyms:	Fibronectin type III domain-containing protein 4; Fibronectin type III repeat-containing protein 1; FRCP1
Species:	Human
Source:	HEK293
Accession:	Q9H6D8/NP_073734.1 (D45-T167)
Gene ID:	64838
Molecular Weight:	Approximately 50-60 kDa due to the glycosylation

PROPERTIES

AA Sequence	DRPPSPVNVTVTHLRANSATVSWDVPEGNI VIGYSISQQR QNGPGQRVIREVNTTTRACALWGLAEDSDY TVQVRSIGLR GESPPGPRVHFRTLKGS DRLPSNSSSPGDI TVEGLDGERP LQT
Biological Activity	Measured in a cell proliferation assay using U87 cells. The ED ₅₀ for this effect is 63 ng/mL. Corresponding to a specific activity is 1.587×10 ⁴ unit/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	FNDC4 protein functions as an anti-inflammatory factor in the intestine and colon, exerting its regulatory influence on macrophages. Through binding and interaction with macrophages, FNDC4 down-regulates the expression of pro-inflammatory genes, influencing essential macrophage functions such as phagocytosis. This anti-inflammatory effect is achieved by modulating key pathways associated with macrophage activation, in part through the activation and signaling of STAT3. The role of FNDC4 in dampening the immunological response, particularly in the context of colitis, underscores its
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potential significance as a molecular mediator in maintaining intestinal immune homeostasis.

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

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