

Visfatin Mouse

Description: Visfatin Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (aa 1-491) containing a 20 aa His tag and having 511 amino acids. The total molecular mass is 57kDa. The Visfatin is purified by proprietary chromatographic techniques.

Synonyms: PBEF, Pre-B cell colony-enhancing factor, Nicotinamide phosphoribosyltransferase NAmPRTase, Nampt, MGC117256, DKFZP666B131, 1110035O14Rik.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless 1 mg/ml solution.

Amino Acid Sequence: MGSSHHHHH SSGLVPRGSH MNAAAEAEFN ILLATDSYKV
THYKQYPPNT SKVSYFECREKKTENSKVR KVKYEETVFY GLQYILNKYL KGKVVTKKI
QEAKVYREH FQDDVFNERGWNYILEKYDG HLPYEVKAVP EGSVIPRGNV LFTVENTDPE
CYWLTNWIET ILVQSWYPITVATNSREQKK ILAKYLLETS GNLDGLEYKL HDFGYRGVSS
QETAGIGASA HLVNF

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The protein solution contains 1x PBS pH-7.4.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

Usage:

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Introduction:

Excess adiposity is the most important risk in the development of insulin resistance and type 2 diabetes mellitus (T2DM). Adipose tissue produces several proteins (adipocytokines) such as leptin, adiponectin, resistin, tumor necrosis factor- α , and IL-6, that modulate insulin sensitivity and appear to play an important role in the pathogenesis of insulin resistance, diabetes, dyslipidemia, inflammation, and atherosclerosis. However, the mechanisms by which fat tissue induces insulin resistance and the role of adipocytokines in the pathogenesis of T2DM have not been well established. Visfatin, also known as pre-B cell colony-enhancing factor (PBEF), is a cytokine that is highly expressed in visceral fat and was originally isolated as a secreted factor that synergizes with IL-7 and stem cell factors to promote the growth of B cell precursors. Visfatin homologs have been identified in carp, invertebrate mollusks, and bacteria, as well as in vertebrates, including humans and the mouse. It has been postulated to play a role in innate immunity. Visfatin exerts insulin-mimetic effects that are dose-dependent and quantitatively similar to those of insulin in stimulating muscle and adipocyte glucose transport, and in inhibiting hepatocyte glucose production. Intravenous injection of recombinant visfatin in mice decreased plasma glucose in a dose-dependent fashion. In keeping with its insulin-mimetic effects, visfatin was as effective as insulin in reducing hyperglycemia in insulin-deficient diabetic mice. Visfatin was also found to be

www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom



bound to and activate insulin receptor, causing receptor phosphorylation and the activation of downstream signaling molecules. However, visfatin and insulin did not compete for binding to the insulin receptor, indicating that the two proteins were recognized by different regions of the receptor. Thus, visfatin might play a role in glucose homeostasis and dysregulation in biosynthesis or signal transduction, and might contribute to the pathogenesis of diabetes.

Catalog #:CYP5-454

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