

Mouse Neurogenin 3 (NEUROG3) ELISA Kit-Sandwich

Cat. No.: EK6F287

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Neurogenin 3 (NEUROG3) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse NEUROG3 in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Neurogenin 3 (NEUROG3).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	0.17-10 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

Target Information

Neurogenin-3 functions as a transcriptional regulator and, alongside NKX2-2, initiates the transcriptional activation of NEUROD1. It plays a role in neurogenesis and is essential for specifying a common precursor to the four pancreatic endocrine cell types. In mice, Neurogenin-3 (Ngn3) is primarily involved in the development of pancreatic endocrine cells and the formation and regulation of hypothalamic neuroendocrine cells. A deficiency in Ngn3 leads mice to rapidly develop obesity symptoms due to the loss of Pomc (melanocyte-stimulating hormone) expression in the hypothalamus. Specifically, Ngn3 deficiency results in incomplete differentiation of neurons expressing Pomc and Cart (an orexigenic hormone) in the arcuate nucleus, leading to overeating and decreased energy expenditure.

Target/Biomarker	Mouse NEUROG3
Target Synonym	Math4B; Atoh5; ngn3; bHLHa7; Class A basic helix-loop-helix protein 7; Protein atonal homolog 5

Gene ID	11925
UniProt ID	P70661

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.