

Mouse Meteorin-like ELISA Kit | METRNL elisa kit

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CATALOG #
AAA263133

REACTIVITY
Mouse

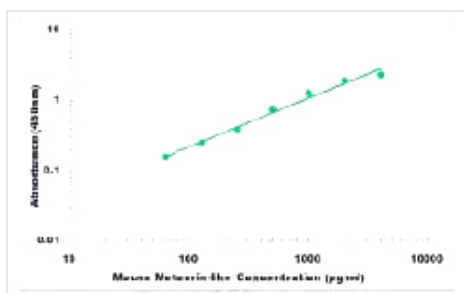
PRODUCT SYNONYMS

Meteorin-like; Mouse Meteorin-like ELISA Kit; Meteorin-like protein; METRNL elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	The Mouse Meteorin-like ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Mouse Meteorin-like proteins within the range of 62.5 pg/ml - 4000 pg/ml.
Sequence Length	311
Samples	Cell Culture Supernates, Serum, Plasma
Sensitivity	<12 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for METRNL elisa kit	Principle of the Assay: The Mouse Meteorin-like ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Mouse Meteorin-like in Cell Culture Supernates, Serum, Plasma. This assay employs an antibody specific for Mouse Meteorin-like coated on a 96-well plate. Standards and samples are pipetted into the wells and Meteorin-like present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Mouse Meteorin-like antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Meteorin-like bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background: METRNL (Meteorin-like) is a cytoplasmic 30 kDa (predicted) member of the meteorin family of proteins. It is expressed by neurons, and appears to function as a primer molecule that sets the stage for either cell differentiation or neurite outgrowth when it acts with Dclk1 and SerpinB1. In mice, exogenously elevated circulating Metrnl increased whole-body energy expenditure and improved glucose tolerance following diet-induced obesity. It also induced expression of antiinflammatory genes, leading to alternative activation of macrophages in adipose tissue and to browning of white fat depots. Metrnl did not appear to activate thermogenic genes directly, but it stimulated eosinophils and macrophages to enter adipose tissue and take their specific thermogenic actions. Blockade of cytokine signaling eliminated Metrnl-induced changes in gene expression required for alternative macrophage activation and blunted expression of beige fat thermogenic and beta-oxidation genes. It is concluded that METRNL is a hormone that influences energy expenditure and thermogenic programs in adipose tissue.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21450153
NCBI GeneID	210029
NCBI Accession #	NP_659046.1
NCBI GenBank Nucleotide #	NM_144797.3
UniProt Accession #	Q8VE43; Q8R1J2
Molecular Weight	25,721 Da
NCBI Official Full Name	meteorin-like protein
NCBI Official Synonym Full Names	meteorin, glial cell differentiation regulator-like
NCBI Official Symbol	Metrnl
NCBI Official Synonym Symbols	BC019776; 9430048M07Rik
NCBI Protein Information	meteorin-like protein
UniProt Protein Name	Meteorin-like protein
UniProt Gene Name	Metrnl
UniProt Entry Name	METRL_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.