

Mouse Meteorin-like/METRNL ELISA Kit | METRNL elisa kit

Mouse Meteorin-like/METRNL PicoKine ELISA Kit

CATALOG #
AAA46779

REACTIVITY
Mouse

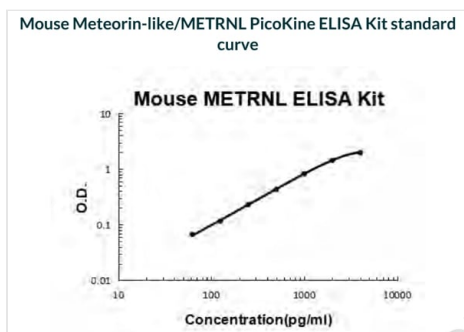
PRODUCT SYNONYMS

Meteorin-like/METRNL; Mouse Meteorin-like/METRNL PicoKine ELISA Kit; Meteorin-like protein; Metrn1; Subfatin; Q8VE43; meteorin; glial cell differentiation regulator-like; METRNL elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse Metrn1
Sequence Length	311
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	62.5 pg/ml - 4,000 pg/ml
Sensitivity	<12 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
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Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for METRNL elisa kit

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 Dcll1 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.

Principle of the Assay: The Picokine™ Mouse Metrnl Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Metrnl with a 96-well strip plate that is pre-coated with antibody specific for Metrnl. The detection antibody is a biotinylated antibody specific for Metrnl. The capture antibody is monoclonal antibody from rat and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Mouse Metrnl with immunogen: Expression system for standard: NS0; Immunogen sequence: Q46-E311. The kit is analytically validated with ready-to-use reagents. To measure Mouse Metrnl, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbound ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse Metrnl in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Metrnl in the sample.

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

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.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/meteorin-like-metrnl/46779>