

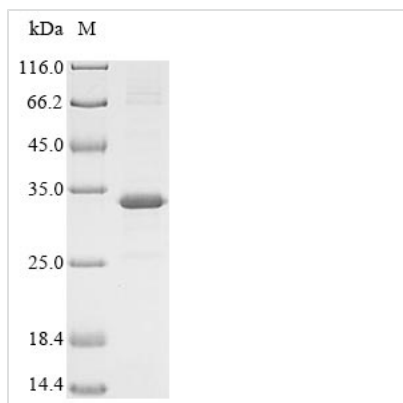


# Recombinant Rat Meteorin-like protein (Metrnl)

<b>Product Code</b>	CSB-EP719323RA
<b>Relevance</b>	Hormone induced following exercise or cold exposure that promotes energy expenditure. Induced either in the skeletal muscle after exercise or in adipose tissue following cold exposure and is present in the circulation. Able to stimulate energy expenditure associated with the browning of the white fat depots and improves glucose tolerance. Does not promote an increase in a thermogenic gene program via direct action on adipocytes, but acts by stimulating several immune cell subtypes to enter the adipose tissue and activate their prothermogenic actions. Stimulates an eosinophil-dependent increase in IL4 expression and promotes alternative activation of adipose tissue macrophages, which are required for the increased expression of the thermogenic and anti-inflammatory gene programs in fat. Required for some cold-induced thermogenic responses, suggesting a role in metabolic adaptations to cold temperatures.
<b>Abbreviation</b>	Recombinant Rat Metrnl protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q5RJL6
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	QYSSDLCSWKGSGLTREAHSKEVEQVYLRC SAGSVEW MYPTGALIVNLRPNT FSPAQNLTVCIKPFRDSSGANIYLEKTGELRLLVRDVRGEPGQVQCFSLEQGG LFVEATPQQDISRRRTTG FQYELMSGQRGLDLHVLSAPCRPCSDTEVLLAICTS DFVVRGFIEDVTHVPEQQVSVIHLRVSRLHRQKSRVFPAPEDSGHWLGHVT TLLQCGVRPGHGEFLFTGHVHFGEAQLGCAPRFSDFQKMYRKAEE RGINPCE INME
<b>Research Area</b>	Cell Biology
<b>Source</b>	E.coli
<b>Target Names</b>	Metrnl
<b>Protein Names</b>	Subfatin
<b>Expression Region</b>	46-311aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	33.8 kDa

**Protein Length**

Full Length of Mature Protein

**Image**

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

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