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## Product Data Sheet

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Product Name: METRNL Human  
 Cat. No.: GP23916  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Meteorin-like protein; Subfatin; METRNL.		
Amino Acid Sequence	MKHHHHHHAS QYSSDRCSWK GSGLTHEAHR KEVEQVYLRC AAGAVEWMYP TGALIVNLRP NTFSPARHLT VCIRSFTDSS GANIYLEKTG ELRLVDPGD GRPGRVQCFG LEQGGLFVEA TPQQDIGRRT TGFQYELVRR HRASDLHEL APCRPCSDTE VLLAVCTSDF AVRGSIQQVT HEPERQDSAI HLRVSRLYRQ KSRVFEPVPE GDGHWQGRVR TLLECGVRPG HGDFLFTGHM HFGEARLGCA PRFKDFQRMV RDAQERGLNP CEVGTD.		
Solubility	It is recommended to add 0.1M acetate buffer, pH 4 to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely.		
Formulation	METRNL filtered (0.4 μm) and lyophilized from 0.5mg/ml in 50mM acetate buffer, 5% trehalose (w/v) and 1mM DTT, pH 4.		

### Introduction

METRNL or Meteorin-like protein is a hormone, released after physical activity (in skeletal muscle) or exposure to cold (in adipose tissue), that induces energy rate. METRNL stimulates energy rate correlate with white fat browning and raise glucose tolerance. The protein stimulates different types of immune cells to enter the fat tissue and start their prothermogenic actions.

### Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Background

METRNL Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (a.a 46-311) containing 276 amino acids including a 10 a.a N-terminal His tag. The total molecular mass is 31.2kDa (calculated).

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