
Product Data Sheet

Product Name: MRPL28 Human

Cat. No.: GP23955

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	MAAT1; p15; 39S ribosomal protein L28; mitochondrial; L28mt; MRP-L28; Melanoma-associated antigen recognized by T-lymphocytes.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MNGQRERVED VPIPIYFPPE SQRGLWGGEG WILGQIYANN DKLSKRLKKV WKPQLFEREF YSEILDKKFT VVTMRTLTL IDEAYGLDFY ILKTPKEDLC SKFGMDLKRK MLLRLARQDP QLHPEDPERR AAIYDKYKEF AIPAAAAEWV GLTLEEAIEK QRLLEEKDPV PLFKIYVAEL IQQLQQALS EPAVVQKRAS GQ.		
Formulation	The MRPL28 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.5), 0.1M NaCl, 10% glycerol and 1mM DTT.		

Introduction

MRPL28 is found in a variety of normal tissues such as spleen, testis, thymus, liver, kidney, brain, adrenal, lung and retinal tissue. 39S ribosomal protein L28, mitochondrial (MRPL28), is a part of the ribosomal protein L28P family. Mammalian mitochondrial ribosomal proteins encoded by nuclear genes and helps in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. MRPL28 is an important therapeutic reagent for HLA-A24 (A24) patients since this antigen is distinguished by tumor-infiltrating lymphocyte (TIL) 1290, which targets the A24 serotype.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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

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MRPL28 Human Recombinant produced in E. coli is a single polypeptide chain containing 222 amino acids (56-256) and having a molecular mass of 25.8 kDa. MRPL28 is fused to 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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