Recombinant Human PRM2 Protein, His-tagged

Cat. No. PRM2-2624H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRM2 Protein (Val2-Arg100) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Val2-Arg100
Description	Protamines substitute for histones in the chromatin of sperm during the haploid phase of spermatogenesis, and are the major DNA-binding proteins in the nucleus of sperm in many vertebrates. They package the sperm DNA into a highly condensed complex in a volume less than 5% of a somatic cell nucleus. Many mammalian species have only one protamine (protamine 1); however, a few species, including human and mouse, have two. This gene encodes protamine 2, which is cleaved to give rise to a family of protamine 2 peptides. Alternatively spliced transcript variants have also been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.3 kDa Accurate Molecular Mass: 17 kDa
Endotoxin	<1.0 EU per 1μg (determined by the LAL method).

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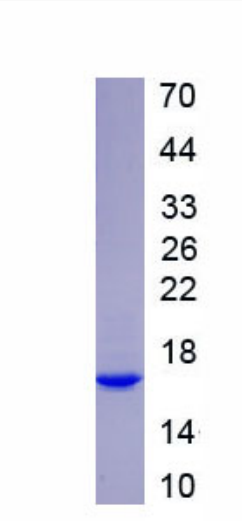
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PRM2 protamine 2 [Homo sapiens (human)]
Official Symbol	PRM2
Synonyms	PRM2; protamine 2; CT94.2; protamine-2 cancer/testis antigen family 94, member 2 sperm histone P2 sperm protamine P2 testicular secretory protein Li 40
Gene ID	5620

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mRNA Refseq	NM_002762
Protein Refseq	NP_002753
MIM	182890
UniProt ID	P04554



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