Recombinant Rat Sepp1 Protein, His-tagged

Cat. No. Sepp1-2051R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Sepp1 Protein (Tyr60-Ser263) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Tyr60-Ser263
Description	This gene encodes a selenoprotein that is predominantly expressed in the liver and secreted into the plasma. This selenoprotein is unique in that it contains multiple selenocysteine (Sec) residues per polypeptide (10 in rat), and accounts for most of the selenium in plasma. It has been implicated as an extracellular antioxidant, and in the transport of selenium to extra-hepatic tissues via apolipoprotein E receptor-2 (apoER2). Mice lacking this gene exhibit neurological dysfunction, suggesting its importance in normal brain function. Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon, rather than as a stop signal. The mRNA for this selenoprotein contains two SECIS elements. Alternatively spliced transcript variants have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27.1 kDa

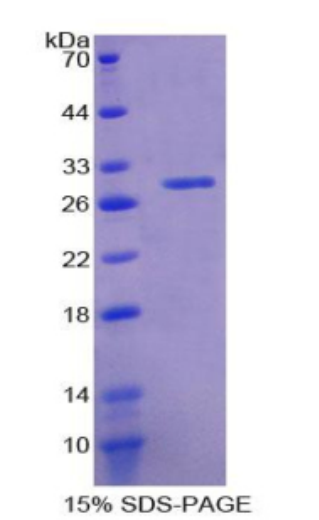
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	Accurate Molecular Mass: 29 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate 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	Sepp1 selenoprotein P, plasma, 1 [Rattus norvegicus (Norway rat)]
Official Symbol	Sepp1
Synonyms	SEPP1; selenoprotein P, plasma, 1; selenoprotein P; seP;
Gene ID	29360
mRNA Refseq	NM_001083911

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Protein Refseq	NP_001077380
UniProt ID	P25236
	

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