

**Catalog No.: RP03268** **Recombinant**

Species	Gene ID	Swiss Prot
Mouse	110196	O920E5

## N-His

Farnesyl pyrophosphate synthase; FPP synthase; FPS; Farnesyl diphosphate synthase; Geranyltranstransferase; FDPS

<b>Source</b>	<b>Purification</b>
E.coli	≥ 85 % as determined by SDS-PAGE.

Calculated MW	Observed MW
42.8 kDa	35-45 kDa

Please contact us for more information.

Lyophilized from a 0.22  $\mu\text{m}$  filtered solution of 50 mM Tris, pH 8.0. Contact us for customized product form or formulation.

Please contact us for reconstitution instructions.

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FDPS is a key enzyme in isoprenoid biosynthesis which catalyzes the formation of farnesyl diphosphate (FPP), and it is a precursor for several classes of essential metabolites including sterols, dolichols, carotenoids, and ubiquinones. FPP also serves as substrate for protein farnesylation and geranylgeranylation, and catalyzes the sequential condensation of isopentenyl pyrophosphate with the allylic pyrophosphates, dimethylallyl pyrophosphate, and then with the resultant geranylpyrophosphate to the ultimate product farnesyl pyrophosphate.

Recombinant Mouse FDPS Protein is produced by E.coli expression system. The target protein is expressed with sequence (Met1-Lys353) of mouse FDPS (Accession #NP\_608219.1) fused with His tag at the N-terminus.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

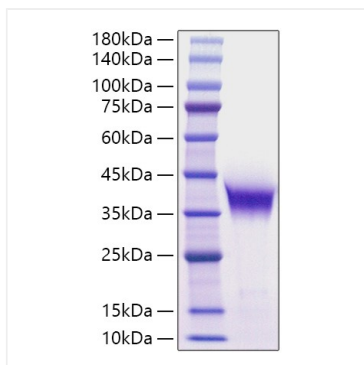
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Validation Data

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Recombinant Mouse Farnesyl pyrophosphate synthase/FDPS Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.