

FDPS Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	Farnesyl diphosphate synthase;Farnesyl pyrophosphate synthase;KIAA1293;(2E,6E)-farnesyl diphosphate synthase;Geranyltranstransferase;Dimethylallyltranstransferase;FPS;FPP synthase;FDPS
Protein Construction:	1-419 aa
Species:	Human
Expression Host:	E. coli
Accession:	P14324
Molecular Weight:	64.3 kDa (predicted)
AA Sequence:	MPLSRWLRSVGVFLLPAPYWAPRERWLGSLRRPSLVHGYVPLAWHSARCWCQAWTEEPRALCSSLRMNGD QNSDVYAQEKQDFVQHFSQIVRVLTEDEMGHPEIGDAIARLKEVLEYNAIGGKYNRGLTVVVAFRELVEPRKQ DADSLQRAWTVGWCVELLQAFFLVADDIMDSSLTRRGQICWYQKPGVGLDAINDANLLEACIYRLLKLYCRE QPYLNLIELFLQSSYQTEIGQTLDLLTAPQGNVDLVRFTKRYKSIVKYKTAFYSFYLPAAAMYMAGIDGEKE HANAKKILLEMGEFFQIQDDYLDLFGDPSVTGKIGTDIQDNKCSWLVVQCLQRATPEQYQILKENYGGQKEAEK VARVKALYEELDLPVFLQYEEDSYSHIMALIEQYAAPLPPAVFLGLARKIYKRRK

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Key enzyme in isoprenoid biosynthesis which catalyzes the formation of farnesyl diphosphate (FPP), a precursor for several classes of essential metabolites including sterols, dolichols, carotenoids, and ubiquinones. FPP also serves as substrate for protein farnesylation and geranylgeranylation. 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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