

Human FDPS Protein

Cat. No. FDS-HE001

KACUS

Description

Source	Recombinant Human FDPS Protein is expressed from E.coli with His tag at the N-Terminus. It contains Met1-Lys353.
Accession	NP_001129294.1
Molecular Weight	The protein has a predicted MW of 41.93 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μ g by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Farnesyl pyrophosphate synthase (FPPS, also known as farnesyl diphosphate synthase (FDPS)) is one of the key enzymes involved in the mevalonate pathway and as such is widely expressed. FPPS modulators, specifically FPPS inhibitors, are useful in treating a number of diseases, including bone-related disorders characterized by excessive bone resorption, for example, osteoporosis, cancer metathesis to bone and infectious diseases caused by certain parasites.

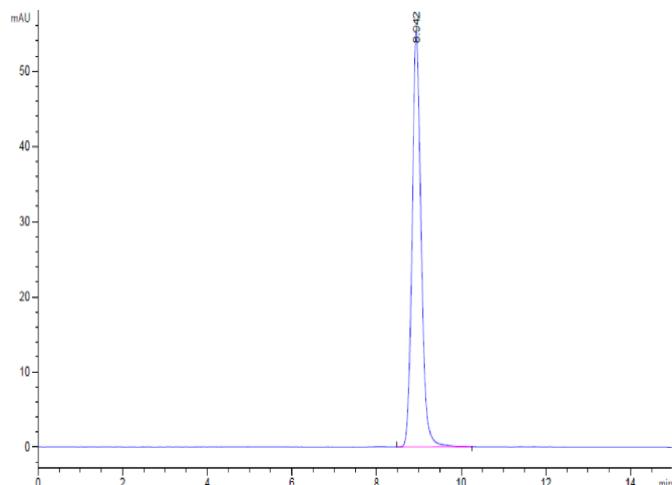
Assay Data

Bis-Tris PAGE



SEC-HPLC

Assay Data



The purity of Human FDPS is greater than 95% as determined by SEC-HPLC.