

Human SMO Full Length Protein (VLP)

Catalog # SMO-H52P3



BIOSYSTEMS
Acro
Surprise Inside!

Synonym

SMO,smoothened, frizzled class receptor,CRJS, FZD11, Gx, PHLS, SMOH

Source

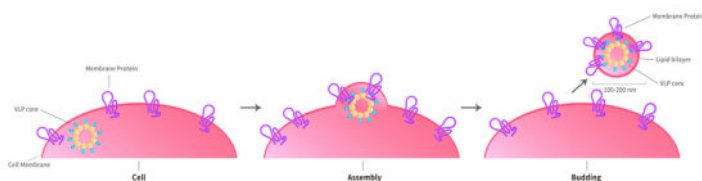
Human SMO Full Length Protein-VLP(SMO-H52P3) is expressed from human 293 cells (HEK293). It contains AA Arg 28 - Phe 787 (Accession # [Q99835-1](#)).

Predicted N-terminus: Asp

Molecular Characterization

The protein has a calculated MW of 113.7 kDa | 56.1 kDa.

Virus-like particles(VLPs) are formed by self-assembly of envelop/capsid proteins from viruses. Membrane Proteins can be constituted in-situ with VLPs produced from HEK293 cell cultures. These VLPs concentrate conformationally intact membrane proteins directly on the cell surface and produce soluble, high-concentration proteins perfect for immunization and antibody screening.



The VLPs provide the display of properly folded membrane proteins in their native cellular membrane in a compact size of 100~300 nm diameter (similar to the size of most viruses) making it optimal targets for dendritic cells in vivo and surface attachment for phage display.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

*The isotype control of empty/mock VLP (Cat. No. [VLP-N5213](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

Formulation

The VLPs are highly immunogenic, so the immunization strategy should be optimized (antigen dose, regimen and adjuvant).

Supplied as 0.2 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

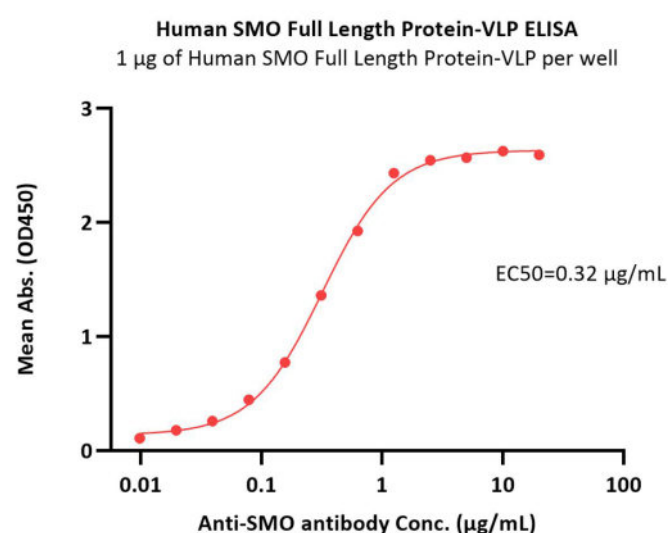
Storage

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

Bioactivity-ELISA



Immobilized Human SMO Full Length Protein-VLP (Cat. No. SMO-H52P3) at 10 µg/mL (100 µL/well) can bind Anti-SMO antibody with a linear range of 0.01-2.5 µg/mL (QC tested).

Discounts, Gifts,
and more!

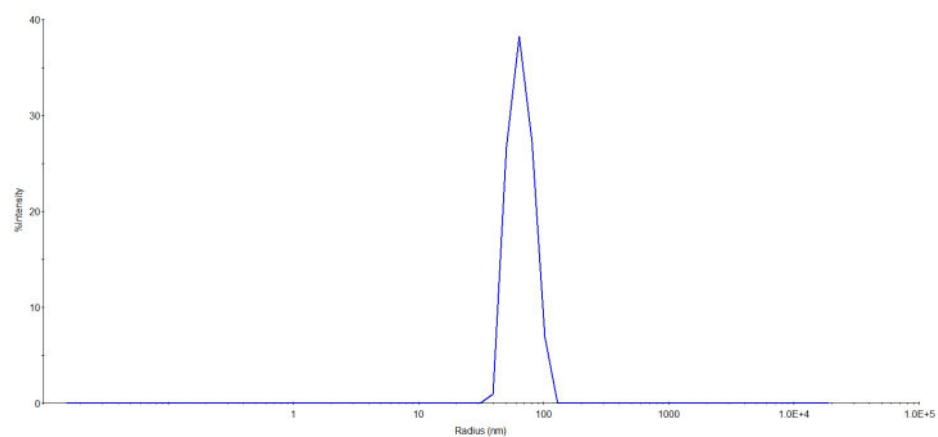


➔ www.acrobiosystems.com

1/15/2025



Identity-DLS



The mean peak Radius of VLP is 60-80 nm with more than 95% intensity as determined by dynamic light scattering (DLS).

Background

The protein encoded by this gene is a G protein-coupled receptor that interacts with the patched protein, a receptor for hedgehog proteins. The encoded protein transduces signals to other proteins after activation by a hedgehog protein/patched protein complex.

Clinical and Translational Updates

Discounts, Gifts,
and more!

