VSV-G fusion refers to the use of the vesicular stomatitis virus glycoprotein G (VSV-G) to enhance the fusion of engineered delivery systems—such as extracellular vesicles (EVs)—with the plasma membrane of target cells.

Key Features

- Envelope glycoprotein from Vesicular Stomatitis Virus
- Enables pH-dependent membrane fusion in endosomes
- Broad host cell range (non-specific tropism)
- Used to pseudotype viral and EV-based delivery vectors

In EV Engineering

VSV-G is incorporated into EV membranes to:

- Promote efficient fusion with recipient cells
- Improve cytosolic delivery of loaded therapeutic cargo (e.g., Cas9, Cre)
- Enhance in vivo delivery efficiency

Limitations

- Immunogenic in clinical settings
- Lacks tissue specificity

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