

Lake Victoria marburgvirus (MARV) (strain Angola/2005) Matrix protein VP40 (His & SUMO)

General Information

Synonyms:	Matrix protein VP40;VP40;Membrane-associated protein VP40;Marburg VP40 (mVP40)
Protein Construction:	1-303 aa
Species:	MARV
Expression Host:	E. coli
Accession:	Q1PD51
Molecular Weight:	49.8 kDa (predicted)
AA Sequence:	MASSSNYNTYMQYLNPPPYADHGANQLIPADQLSNQQGITPNYVGDNLNDDQFKGNVCHAFTLEAIIDISAY NERTVKGVPAWLPLGIMSNFEYPLAHTVAALLTGSYTITQFTHNGQKQFVRVNRNLGTGIPAHPLRMLREGNQAF IQNMVIPRNFSTNQFTYNLTNLVLSVQKLPDDAWRPSKDKLIGNTMHPAVSVHPNLPPIVLPTVKKQAYRQH KNPNNGPLLAISGILHQLRVEKVPEKTSLFRISLPADMFSVKEGMMKRGENSEPVVYFQAPENFPLNGFNRR QVVLAYANPTLSAV

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

Plays an essential role virus particle assembly and budding. Promotes virus assembly and budding by interacting with host proteins of the multivesicular body pathway. The interaction with host E3 ubiquitin ligase SMURF2 facilitates virus budding. The interaction with the nucleocapsid and the plasma membrane may also facilitate virus

budding. Specific interactions with membrane-associated GP and VP24 during the budding process may also occur. May play a role in genome replication.

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