

Rabies virus (RABV) (strain India) Glycoprotein (His & SUMO)

General Information

Synonyms: Glycoprotein

Protein Construction: 20-459 aa

Species: RABV

Expression Host: E. coli

Accession: A3RM22

Molecular Weight: 65.4 kDa (predicted)

AA Sequence:

KFPIYTIPDKLGPWSPIDIHHLSCPNNLVVEDEGCTNLSGFSYMEKLVGYISAIVNGFTCTGVVTEAETYTNFV
GYVTTTTFKRKHFRTPDACRAAYNWKMGADPRYEESLHNPYPDYHWLRTVKTTKESLVIISPSVADLDPYDK
SLHSRVFSPGKCSGITISSTYCNHDYTIWMPENPRLGTSCDIFTNSRGKRASKGGKTCGFVDERGLYKSLKG
ACKLKLCGVLGLRLMDGTWVAMQTSDETKWCPPDQLVNLHDFRSDEIEHLVVEELVKKREECLDALESIMAT
KSVSFRRLSHLRKLVPGFGKAYTIFNKTLMEADAHYKSVRTWNEIIPSKGCLRVGGRCHPHVNGVFFNGIILGP
DGHVLIPEMQSSLLQOHMELLESSVIPLMHPLADPSTVFKDGDDEADFVEVHLPDVHKQISGVDLGLPSWGK

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

Attaches the virus to host cellular receptor, inducing endocytosis of the virion. In the endosome, the acidic pH induces conformational changes in the glycoprotein trimer, which trigger fusion between virus and cell

membrane. There is convincing in vitro evidence that the muscular form of the nicotinic acetylcholine receptor (nAChR), the neuronal cell adhesion molecule (NCAM), and the p75 neurotrophin receptor (p75NTR) bind glycoprotein and thereby facilitate rabies virus entry into cells.

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