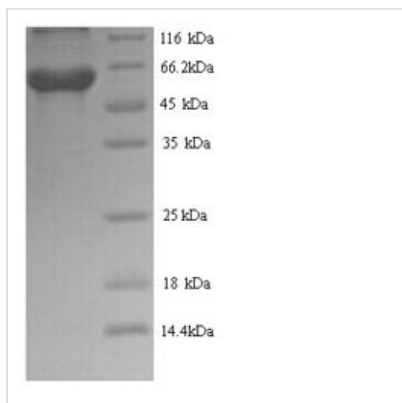


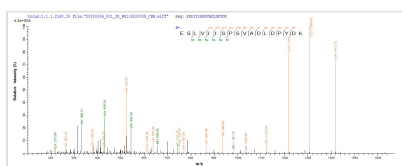


# Recombinant Rabies virus Glycoprotein (G), partial

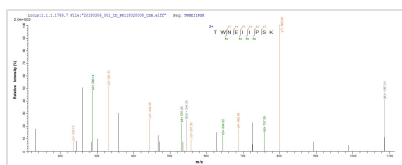
<b>Product Code</b>	CSB-YP389005RIE
<b>Relevance</b>	Attaches the virus to host cellular receptor, inducing endocytosis of the virion. In the endosome, the acidic pH induces conformational changes in the glycoprotein trimer, which trigger fusion between virus and cell membrane. There is convincing in 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 (By similarity).
<b>Abbreviation</b>	Recombinant Rabies virus Glycoprotein, partial
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	A3RM22
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Rabies virus (strain India) (RABV)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	KFPIYTIPDKLGPWSPIDIHHLSCPNNLVVEDEGCTNLSGFSYMELKVGYISAIK VNGFTCTGVVTEAETYTNFVGIVTTTFKRKHFRPTPDACRAAYNWKMAGDPR YEESLHNPYPDYHWLRTVKTTKESLVIISPSVADLDPYDKSLHSRVFPSGKCSG ITISSTYCYSTNHDYTIWMPENPRLGTSCDIFTNSRGKRASKGGKTCGFVDERG LYKSLKGACKLKLKCGVLGLRLMDGTWVAMQTSDETKWCPPDQLVNLHDFRS DEIEHLVVEELVKKREECLDALESIMATKSVSFRRLSHLRKLVPGFGKAYTIFNK TLMEADAHYKSVRTWNEIIPSKGCLRVGGRCHPHVNGVFFNGIILGPDGHVLIP EMQSSLLQQHMELLESSVIPLMHPLADPSTVFKDGDGEAEDFVEVHLPDVHKQI SGVDLGLPSWGKY
<b>Source</b>	Yeast
<b>Target Names</b>	G
<b>Protein Names</b>	Recommended name: Glycoprotein G
<b>Expression Region</b>	20-459aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	51.4kDa
<b>Protein Length</b>	Partial
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP389005RIE could indicate that this peptide derived from Yeast-expressed Rabies virus (strain India) (RABV) G.



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## Description

A target DNA fragment corresponding to 20-459aa of Rabies virus (strain India) (RABV) was expressed with N-terminal 6xHis-tags in yeast. The resulting protein is the Yeast-expressed Recombinant Rabies Virus Glycoprotein (G). Its purity is greater than 90% as determined by SDS-PAGE. And it contains 440 amino acids and has a calculated molecular weight of 51.4 kDa. As the only surface protein of the rabies virion, the RABV G protein can induce the production of virus-neutralizing antibodies (VNA).

Rabies virus G is a component constituting the envelope of the rabies virus, which is the causative agent of rabies. Rabies is an ancient zoonotic disease that causes tens of thousands of deaths around the globe annually. RABV G is a key determinant for the induction of innate immune responses and consequent pathogenesis. The binding of RABV G to neural receptors such as acetylcholine receptor or neural cell adhesion molecules (NCAM), leading to exclusive neurotropism and neuroinvasiveness of RABV.

## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.