



# Recombinant rubella virus E1 protein [GST] (DAGA-499)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Antigen Description

Rubella virus is an enveloped positive-strand RNA virus of the family Togaviridae: Virions are composed of three structural proteins: a capsid and two membrane-spanning glycoproteins, E2 and E1. During virus assembly, the capsid interacts with genomic RNA to form nucleocapsids. The rubella virus (RV) structural proteins: capsid, E2, and E1 are synthesized as a polyprotein precursor. The signal peptide that initiates translocation of E2 into the lumen of the endoplasmic reticulum remains attached to the carboxy terminus of the capsid protein after cleavage by signal peptidase.

Conjugate	GST
Applications	ELISA, WB
Format	Liquid
Concentration	Batch dependent - please inquire should you have specific requirements
Size	1 mg
Buffer	20mM Tris-HCl pH 8.0, 1.5M urea, 10mM b-mercaptoethanol and 25% glycerol
Preservative	None
Storage	Stable at 4°C for 1 week, Freeze at -18°C for longer periods.

## BACKGROUND

### Introduction

Rubella virus is the only member of the Rubrivirus genus of the Togavirus family. Unlike most Togaviruses it is NOT arthropod borne, but is acquired via the respiratory route. It is an enveloped (toga=cloak), non-segmented, positive sense, RNA virus and replicates in the

cytoplasm. It consists of 3 structural proteins; E1,E2 membrane bound glycoproteins, and C capsid protein. The the two envelope glycoproteins E2 and E1 are found as a heterodimeric spike complex embedded in the lipid envelope.

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**Keywords**

E2 protein;Rubella;Measles protein;Measles;E2 glycoprotein

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