Recombinant Cytomegalovirus gH Pentamer Complex, His-tagged

Cat. No. CYT-144 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cytomegalovirus gH Pentamer Complex comprises five viral proteins (gH, gL, UL128, UL130, and UL131A). This complex has been shown to bind our recombinant NRP-2 protein in ELISA.
Tag	His
Background	hCMV can cause serious morbidity/mortality in immune compromised individuals such as transplant recipients and HIV patients, and congenital hCMV infection can lead to birth defects. The Pentamer Complex is expressed on all wildtype hCMV strains but is notably missing from laboratory strains such as AD169. (Freed et al.). This has placed severe limitations on vaccine development. Receptor-mediated viral entry into endothelial cells requires a functional gH pentameric complex, and this complex is one of the primary targets for antiviral antibodies in infected individuals. NAC's new recombinant hCMV gH complex will be key to enabling essential basic and applied research. In addition, the gH complex is expected to provide the basis for a new generation of IVD tests. The native-like Pentamer Complex is produced in human cells to ensure that all proteins are properly folded and possess their native glycosylation pattern. The presence of all five proteins in the purified complex is confirmed by mass spectrometry. The Pentamer Complex is offered in ready to use liquid format and is available 100ug and 1mg vials size with the opportunity to purchase bulk quantities. NAC offers two further antigens in its CMV range: a native high purity antigen which

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	demonstrates a high affinity for both IgG and IgM, ideal for antibody captures assays, and a standard lysate more suited as a serological control. Cytomegalovirus gH pentamer complex is sold as a catalogue item for research use and for use in in vitro diagnostic assay/kits only and as such is without the need for prior agreement with NAC. If the product is intended to be used as a pharmaceutical or as a means to produce a pharmaceutical (including use as an immunogen and for clinical trials), then this must be under prior contractual agreement with NAC.
Purity	>95% pure by SDS-PAGE
Sequence Strain	VR1418
Formulation	Dulbecco's PBS, 0.2 µm filter sterilised.
Stability	The protein can be handled at room temperature, but exposure to temperatures >4 centigrade should be minimised. Freeze the protein when storing for > 1 week.
Freezing	Can be frozen and thawed, but avoid excessive freeze/thaw cycles.
Storage	Short Term Storage: -80 centigrade Long Term Storage: -80 centigrade
Notes	This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.
Type	Recombinant
ClassID 1	Infectious Disease

GENE INFORMATION

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Synonyms	CMV gH Pentamer Complex

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