

Recombinant Human NEWENTRY, Fc Chimera

Cat. No. NEWENTRY-720H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NEWENTRY encoding the extracellular domain (Met 1- Lys 700) of human CMV gB (AAA45920.1) precursor was fused with the Fc region of human IgG1 at the C-terminus. It was produced in <i>Human Cells (HEK293)</i> .
Species	Human
Source	HEK293
ProteinLength	1-700 a.a.
Description	Human cytomegalovirus (CMV) (human herpesvirus 5) glycoprotein B is a 907-amino acid glycoprotein encoded by the ORF of UL55. It is the most abundant component of the envelope with at least two defined neutralizing epitopes, a target of neutralizing antibodies and an essential replication component. The synthesized gB precursor matures into a 130-160 kDa glycoprotein by acquiring N-linked glycosylation modifications, and is cleaved by the cellular protease furin into two components, a 93-116 kDa N-terminal fragment and a 55 kDa C-terminal fragment linked by a disulfide-bond, which is presented on the viral envelope as well as on the surface of virus-infected cells as a covalently associated homodimer. gB plays important roles in HCMV entry, cell-cell spread of internal virions, and fusion of infected cells. It triggers penetration of cells and enhances the spread of infection in nonpolarized human fibroblasts. The interaction of gB with the non-heparin receptor CD209/DC-SIGN is the initiation of intracellular signaling and activation of the IFN-responsive pathway.

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Molecular Mass	The recombinant glycoprotein B ECD of human CMV/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer consists of 914 amino acids and has a predicted molecular mass of 104 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh gB/Fc monomer is approximately 125-135 kDa due to glycosylation.
Predicted N Terminal	Asn 25.
Purity	> 90%, as determined by SDS-PAGE.
Formulation	Supplied as a 0.2µm filtered solution of PBS, pH7.4.
Stability	Samples are stable for up to twelve months from date of receipt -70°C.
Endotoxin	< 1.0 EU per 1µg cytokine as determined by the LAL method.
Reconstitution	Follow the instructions on the vial. Centrifuge the vial at 4°C before opening to recover the entire contents.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	NEWENTRY Record to support submission of GeneRIFs for a gene not in Entrez Gene (Human cytomegalovirus; Human cytomegalovirus HCMV; human cytomegalovirus CMV; human herpesvirus type 5). [Human herpesvirus 5]
Synonyms	NEWENTRY; Record to support submission of GeneRIFs for a gene not in Entrez

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Gene (Human cytomegalovirus; Human cytomegalovirus HCMV; human cytomegalovirus CMV; human herpesvirus type 5)

Gene ID	5495302
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