Recombinant Varicella-Zoster Virus Heterodimer gE/gI, His-tagged

Cat. No. VAR-614 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Varicella-Zoster virus heterodimer gE/gI is manufactured in HEK293 cells and purified by affinity chromatography to
Tag	His
Background	Varicella-zoster virus (VZV) is a alphaherpesvirus which causes chicken pox (varicella) and shingles (zoster) (Gershon et al., 2015; Gabutti et al., 2016). The VZV 125-kb genome is the smallest of the alphaherpesviruses and is comprised of a unique long (UL) and unique short (US) region flanked by internal and terminal repeats. As with other herpesviruses, VZV requires glycoproteins on the virion surface for cell entry and cell-to-cell spread. Nine glycoproteins are encoded by the VZV genome. Two glycoproteins critical to VZV, gE and gI, are encoded by open reading frame 68 (ORF68) and ORF67, respectively, located in the US region of the genome. These two VZV glycoproteins (gE and gI) form a heterodimer that mediates efficient cell-to-cell spread. Deletion of ORF68 (gE) is lethal to VZV. Deletion of ORF67 (gI) results in a virus with a small-plaque phenotype in vitro, which cannot be recovered from inoculated human skin xenografts (Mallory et al., 1997; Mo et al., 2002). The noncovalent heterodimer that forms between gE and gI can be disrupted by the deletion of the first cysteine-rich region in gE, severely impairing replication in human skin tissue.
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

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	the material, including its disposal, in accordance with all regulations.
Type	Recombinant
ClassID 1	Infectious Disease

GENE INFORMATION

Synonyms	Varicella-Zoster Virus Heterodimer gE/gI

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