HSV-GFP-NIS



Product Description

Product Name: HSV-GFP-NIS (Standard Titer, 0.25 mL)

Catalog Number: OV3003 Lot Number: OV-IM35

Shipping conditions: Dry ice

Storage conditions: Store at ≤ -70°C upon receipt, avoid

subjecting to multiple freeze-thaw cycles

Species: Herpes simplex virus-1 (HSV-1)

Virus strain: HSV-1 strain 17+

Transgene: Green fluorescent protein (GFP)

Human sodium iodide symporter (hNIS)

Production Cell Line: Vero

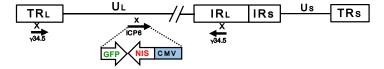
Storage Media: Serum-free media

Propagation: Inoculate producer cells (e.g. Vero) at an MOI

of 0.01 for 2-3 hours. Harvest culture supernatant and cells when 80-90% of the cell monolayer is showing cytopathic effects (CPE). Freeze-thaw 3 cycles and clarify the supernatant by low-speed centrifugation. Centrifuge the supernatant at 14,000 x g for 1h at 4°C. Resuspend the viral pellet in DPBS.

HSV-GFP-NIS is a recombinant of the strain 17+ of Herpes simplex virus-1. HSV-GFP-NIS contains a deletion of both copies of the ICP34.5. The human cytomegalovirus (CMV) promoter followed by the hNIS cDNA is inserted in the ICP6 reading frame (see diagram below). The purchased virus is ready for use in cell killing assays or may be amplified to generate additional virus stocks.

Genome:



References:

Campadelli-Fiume, et al. Rev. Med. Virol. (2011), 21(4):213-26. Li, et al. Cancer Gene Ther. (2013), 20(8): 478–485. Maneta, et al., Nat. Med. (1995), 1(9):938-43. Chou, et al., Science (1990), 250, 1262-1266. Kramm, et al., Human Gen. Therapy (1997), 8:2057-2068 Bolovan, et al., J Virol. (1994), 68(1): 48–55.

Safety Precaution:

All culture work with HSV should be performed by trained personnel and performed under BSL2 containment following NIH guidelines.

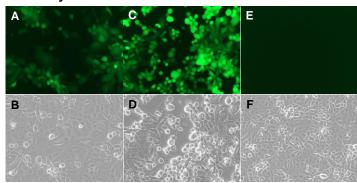


Certificate of Analysis

Testing performed by Imanis Life Sciences

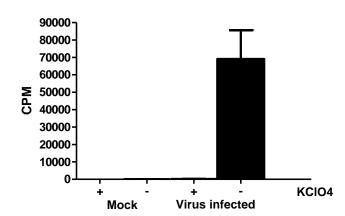
Test description	Result
Titer (on Vero cells)	1.15 x10 ⁷ TCID ₅₀ units/mL
Sterility	Pass QC
Cytopathic Effect	Pass QC
Endotoxin Test	Pass QC
Fluorescence expression	Pass QC
NIS Expression	Pass QC

Infectivity:



Vero cells were infected with HSV-GFP-NIS (MOI 0.1) (A-D) or mock-infected (E&F). Photos taken at 24 h.p.i. (A&B) or 48 h.p.i (C-F).

NIS Expression:



The functionality of the hNIS gene was assessed using an uptake assay; uptake of 125 I by HSV-GFP-NIS-infected Vero cells (MOI=0.1) was measured 24 h.p.i. in the presence (+) or absence (-) of KClO₄, an inhibitor of NIS-mediated 125 I uptake.

Quality Control by: MT Quality Assurance by: RLV Effective Date: 05-Mar-2019

HSV-GFP-NIS



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