



Reporter-encoding Oncolytic Herpes Simplex Virus 1 (Δ ICP27), CMV-Dsred

Cat. No.: RepOV-0001XY

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

PRODUCT INFORMATION

Product Overview This product is a Dsred encoding oncolytic herpes simplex virus, which is based on HSV-1 with ICP27 deleted. ICP27 is highly cytotoxic probably due to its secondary role of preventing the splicing of pre-mRNAs in favour of translation from the mainly unspliced hepes RNAs. Deletion of ICP27 might produce a safer and less cytotoxic system when combined with other oncolytic-rendered modifications. This product can be used in oncolytic virotherapy research and further recombinant HSV construction.

SPECIFICATIONS

Family	Herpesviridae
Species	Herpes simplex virus
Serotype	Herpes simplex virus 1
Backbone	HSV-1 (Δ ICP27)
Backbone Background	Herpes simplex virus 1 and 2 (HSV-1 and HSV-2), also known as human herpesvirus 1 and 2 (HHV-1 and HHV-2), are two members of the human Herpesviridae family, a set of viruses that produce viral infections in the majority of humans. Modified Herpes simplex virus is considered as a potential therapy for cancer and has been extensively clinically tested to assess its oncolytic ability.
Gene Modification	Δ ICP27
Promoter	CMV

Transgene	Dsred
Type of Transgene	Reporter gene
Related Target/Protein	Discosoma red fluorescent protein
Capsid Modification	None
Titer	>1*10 ⁸ PFU
Related Diseases	Tumor

TRANSGENE INFORMATION

Introduction	Red fluorescent protein (RFP) is a fluorophore that fluoresces red-orange when excited. Several variants have been developed using directed mutagenesis. The original was isolated from Discosoma, and named DsRed. Others are now available that fluoresce orange, red, and far-red. RFP is approximately 25.9 kDa. The excitation maximum is 558 nm, and the emission maximum is 583 nm.
Alternative Names	DsRed, Discosoma red fluorescent protein