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Oncolytic HSV-1 NV1020

National Cancer Institute

Source

National Cancer Institute. <u>Oncolytic HSV-1 NV1020</u>. NCI Thesaurus. Code C2623.

A genetically engineered oncolytic virus with potential antineoplastic property. NV1020 is constructed from the herpes simplex virus 1 (HSV-1) by the deletion of a single copy of the gamma (1)34.5 gene and the substitution of the UL23 region of the thymidine kinase (tk) gene with a DNA fragment from HSV-2, thereby resulting in a replication-competent, attenuated virus. This modified virus preferentially transfects rapidly dividing cells, which causes cell lysis in tumor cells. NV1020 has shown reduced virulence against normal tissues and a decreased neurovirulence in comparison with some other modified HSV strains.

Qeios ID: R3J1AE · https://doi.org/10.32388/R3J1AE