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Adeno-Associated Virus Type 2

National Cancer Institute

Source

National Cancer Institute. *Adeno-Associated Virus Type 2*. NCI Thesaurus. Code C48818.

This strain of viridae is a non-pathogenic human parvovirus that is icosahedral, 20-25 nm in diameter, minus sense, and comprised of a 5 kb. single-stranded DNA genome. The virus is generally monomorphic and has been developed as a gene therapy vector for the treatment of numerous diseases. Wild-type AA-2 retains the ability to preferentially integrate its DNA into a 4 kilobase region of human chromosome 19, designated AAVS1, making it an attractive gene therapy vehicle. The virus has demonstrated anti-cancer activity by inducing apoptosis and inhibiting the growth of cancer cells.