

Product Name:	Cidofovir dihydrate
Product Number:	C202
CAS Number:	149394-66-1
Molecular Formula:	$C_8H_{18}N_3O_8P$
Molecular Weight:	315.218
Appearance:	White powder
Storage Conditions:	$\leq 30^{\circ}C$
Description:	<p>Cidofovir dihydrate is an antiviral compound and has been used clinically for the treatment of cytomegalovirus (CMV) retinitis in AIDS patients.</p> <p>This product is considered a dangerous good. Quantities above 1 g may be subject to additional shipping fees. Please contact us for specific questions.</p>
Mechanism of Action:	Cidofovir targets CMV DNA polymerase and is active at a concentration of 0.1 $\mu g/mL$.
Spectrum:	Cidofovir dihydrate has a broad spectrum of antiviral activity against nearly all DNA viruses including poxviruses, papillomaviruses, adenoviruses, and herpesviruses. Cidofovir also targets HPV oncoproteins E6 and E7 which restores the antitumor function of p53.
References:	<p>Clercq, Erik De. "Cidofovir in the Treatment of Poxvirus Infections." Antiviral Research 55.1 (2002): 1-13.</p> <p>Abdulkarim, Bassam, Siham Sabri, Eric Deutsch, Heddia Chagraoui, Laurence Maggiorella, Jerome Thierry, François Eschwege, William Vainchenker, Salem Chouaïb, and Jean Bourhis. "Antiviral Agent Cidofovir Restores P53 Function and Enhances the Radiosensitivity in HPV-associated Cancers." <i>Oncogene</i> 21.15 (2002): 2334-346.</p>