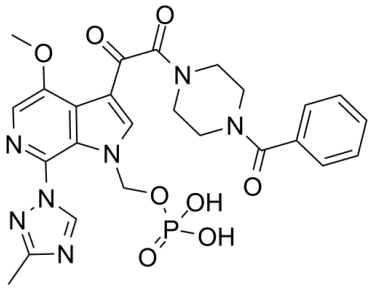
Data Sheet

Product Name:	Fostemsavir
Cat. No.:	CS-1059
CAS No.:	864953-29-7
Molecular Formula:	C25H26N7O8P
Molecular Weight:	583.49
Target:	HIV
Pathway:	Anti-infection
Solubility:	H2O : 20 mg/mL (34.28 mM; Need ultrasonic); DMSO : ≥ 100 mg/mL (171.38 mM)



BIOLOGICAL ACTIVITY:

Fostemsavir (BMS-663068) is the phosphonooxymethyl prodrug of BMS-626529. Fostemsavir (BMS-663068) is a novel attachment inhibitor that targets **HIV-1** gp120 and prevents its binding to $CD4^+$ T cells. IC50 & Target: HIV-1[1] **In Vivo:** Fostemsavir (BMS-663068) has good antiviral activity in subjects infected with virus shown to be susceptible (IC_{50}, <100 nM) to the agent[1].

References:

[1]. Nowicka-Sans B, et al. In vitro antiviral characteristics of HIV-1 attachment inhibitor BMS-626529, the active component of the prodrug BMS-663068. Antimicrob Agents Chemother. 2012 Jul;56(7):3498-507.

CAIndexNames:

1,2-Ethanedione, 1-(4-benzoyl-1-piperazinyl)-2-[4-methoxy-7-(3-methyl-1H-1,2,4-triazol-1-yl)-1-[(phosphonooxy)methyl]-1H-pyrrolo[2,3-c]pyridin-3-yl]-

SMILES:

O=C(N1CCN(C(C2=CC=CC=C2)=O)CC1)C(C3=CN(COP(O)(O)=O)C4=C3C(OC)=CN=C4N5N=C(C)N=C5)=O

Caution: Product has not been fully validated for medical applications. For research use only.

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