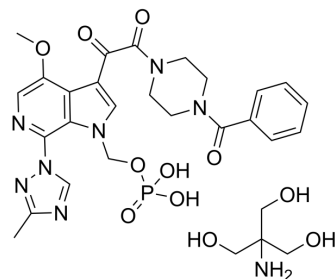


## Fostemsavir Tris

<b>Cat. No.:</b>	HY-15440B
<b>CAS No.:</b>	864953-39-9
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>37</sub> N <sub>8</sub> O <sub>11</sub> P
<b>Molecular Weight:</b>	704.62
<b>Target:</b>	HIV
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (177.40 mM; Need ultrasonic)  
H<sub>2</sub>O : 100 mg/mL (141.92 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.4192 mL	7.0960 mL	14.1920 mL
	5 mM	0.2838 mL	1.4192 mL	2.8384 mL
	10 mM	0.1419 mL	0.7096 mL	1.4192 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 50 mg/mL (70.96 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (2.95 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (2.95 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (2.95 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Fostemsavir Tris (BMS-663068 (Tris)) is the phosphonooxymethyl proagent of BMS-626529. Fostemsavir Tris (BMS-663068 (Tris)) is a novel attachment inhibitor that targets HIV-1 gp120 and prevents its binding to CD4<sup>+</sup> T cells.

#### IC<sub>50</sub> & Target

HIV-1

#### In Vivo

Fostemsavir Tris has good antiviral activity in subjects infected with virus shown to be susceptible (IC<sub>50</sub>, <100 nM) to the

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agent<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[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.

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

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