



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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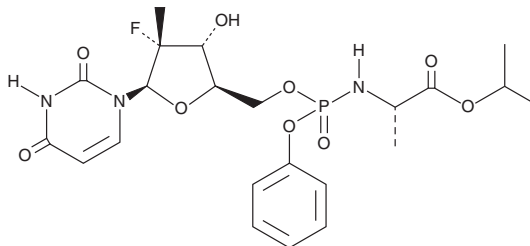
# PRODUCT INFORMATION



## PSI-7977

Item No. 15402

**CAS Registry No.:** 1190307-88-0  
**Formal Name:** N-[[P(S),2'R]-2'-deoxy-2'-fluoro-2'-methyl-P-phenyl-5'-uridylyl]-L-alanine, 1-methylethyl ester  
**Synonyms:** GI-7977, Sofosbuvir  
**MF:** C<sub>22</sub>H<sub>29</sub>FN<sub>3</sub>O<sub>9</sub>P  
**FW:** 529.5  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 261 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

PSI-7977 is supplied as a crystalline solid. A stock solution may be made by dissolving the PSI-7977 in the solvent of choice. PSI-7977 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of PSI-7977 in ethanol is approximately 25 mg/ml and approximately 20 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of PSI-7977 can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of PSI-7977 in PBS, pH 7.2, is approximately 0.2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

PSI-7977 is a phosphoramidate prodrug of PSI-7851, a nucleoside analog that, when phosphorylated, inhibits the RNA-dependent RNA polymerase of hepatitis C virus (EC<sub>50</sub> = 92 nM).<sup>1-3</sup> PSI-7977 is effective *in vitro* and *in vivo*.<sup>2,4,5</sup>

### References

1. Murakami, E., Tolstykh, T., Bao, H., *et al.* *J. Biol. Chem.* **285**(45), 34337-34347 (2010).
2. Sofia, M.J., Bao, D., Chang, W., *et al.* *J. Med. Chem.* **53**(19), 7202-7218 (2010).
3. Lam, A.M., Espiritu, C., Bansal, S., *et al.* *Antimicrob. Agents Chemother.* **56**(6), 3359-3368 (2012).
4. Gane, E.J., Stedman, C.A., Hyland, R.H., *et al.* *N. Engl. J. Med.* **368**(1), 34-44 (2013).
5. Lawitz, E., Mangia, A., Wyles, D., *et al.* *N. Engl. J. Med.* **368**(20), 1878-1887 (2013).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

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