

Product Data Sheet

Product Name: IDX184
Cat. No.: GC71538

Chemical Properties

Cas. No. 1036915-08-8

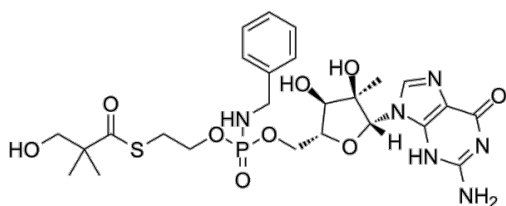
Formula $C_{25}H_{35}N_6O_9PS$ M.Wt 626.62

Solubility DMSO : 250 mg/mL (398.97 mM; Storage
Need ultrasonic; Hygroscopic DMSO
has a significant impact on the
solubility of product, please use
newly opened DMSO)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the
ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or
blue ice upon request.

Structure



Background

IDX184 is a potent and orally bioavailable inhibitor of HCV replication. IDX184 potently inhibits HCV polymerase ($IC_{50}=0.31 \mu M$, $K_i=52.3 nM$).

IDX184 is a liver-targeted prodrug of the nucleotide 2'-MeG-MP. IDX184 is a liver-targeted nucleotide

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

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polymerase inhibitor of hepatitis C virus^[1].

IDX184 is a second generation, orally bioavailable nucleotide prodrug designed to provide increased anti-HCV efficacy and safety versus the parent nucleoside. In HCV replicon testing, IDX184 is the most potent inhibitor ($EC_{50}=0.3-0.45\ \mu M$) compared to any of the 2' or 4' modified nucleosides ($EC_{50}=4-6\ \mu M$) and is also highly inhibitory in the JFH-1 infectious system ($EC_{50}=0.06-0.11\ \mu M$).

IDX184 is not toxic ($CC_{50}>100\ \mu M$) in any tested cell line^[2].

References:

[1]. Xiao-Jian Zhou , et al. Safety and Pharmacokinetics of IDX184, a Liver-Targeted Nucleotide Polymerase Inhibitor of Hepatitis C Virus, in Healthy Subjects. *Antimicrob Agents Chemother.* 2011 Jan;55(1):76-81.

[2]. IN VITRO ANTIVIRAL ACTIVITY AND PHARMACOLOGY OF IDX184, A NOVEL AND POTENT INHIBITOR OF HCV REPLICATION.

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