

Product data sheet



MedKoo Cat#: 555279 Name: JNJ-632 CAS: 1572510-42-9 Chemical Formula: C ₁₈ H ₁₉ FN ₂ O ₄ S Exact Mass: 378.105 Molecular Weight: 378.4184	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

JNJ-632 is a potent HIV capsid assembly modulator and HBV replication inhibitor with EC₅₀ of 100-200 nM for genotypes A-D. Administration of JNJ-632 in HBV genotype D infected chimeric mice, resulted in a 2.77 log reduction of the HBV DNA viral load.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	83.67	221.10
Ethanol	76.0	200.84

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.64 mL	13.21 mL	26.43 mL
5 mM	0.53 mL	2.64 mL	5.29 mL
10 mM	0.26 mL	1.32 mL	2.64 mL
50 mM	0.05 mL	0.26 mL	0.53 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Berke JM, Dehertogh P, Vergauwen K, Van Damme E, Mostmans W, Vandyck K, Pauwels F. Capsid Assembly Modulators Have a Dual Mechanism of Action in Primary Human Hepatocytes Infected with Hepatitis B Virus. *Antimicrob Agents Chemother.* 2017 Jul 25;61(8):e00560-17. doi: 10.1128/AAC.00560-17. PMID: 28584155; PMCID: PMC5527576.

In vivo study

1. Vandyck K, Rombouts G, Stoops B, Tahri A, Vos A, Verschueren W, Wu Y, Yang J, Hou F, Huang B, Vergauwen K, Dehertogh P, Berke JM, Raboisson P. Synthesis and Evaluation of N-Phenyl-3-sulfamoyl-benzamide Derivatives as Capsid Assembly Modulators Inhibiting Hepatitis B Virus (HBV). *J Med Chem.* 2018 Jul 26;61(14):6247-6260. doi: 10.1021/acs.jmedchem.8b00654. Epub 2018 Jul 3. PMID: 29906396.

7. Bioactivity

Biological target:

JNJ-632 is a hepatitis B virus (HBV) capsid assembly modulator (CAM).

In vitro activity

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CAM (capsid assembly modulator) JNJ-632 is a novel and potent inhibitor of HBV replication in vitro across genotypes A to D. It induces the formation of morphologically intact viral capsids, as demonstrated by size exclusion chromatography and electron microscopy studies.

Reference: Antimicrob Agents Chemother. 2017 Jul 25;61(8):e00560-17. <https://pubmed.ncbi.nlm.nih.gov/28584155/>

In vivo activity

Administration of JNJ-632 in HBV genotype D infected chimeric mice resulted in a 2.77 log reduction of the HBV DNA viral load.

Reference: J Med Chem. 2018 Jul 26;61(14):6247-6260. <https://pubmed.ncbi.nlm.nih.gov/29906396/>

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.