

Product data sheet



MedKoo Cat#: 563972 Name: NPD8716 CAS: 956944-02-8 Chemical Formula: C ₂₃ H ₃₁ NO ₆ S Exact Mass: 449.1872 Molecular Weight: 449.562	
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:

NPD8716 is a hepatitis B/D virus entry inhibitor, targeting sodium taurocholate cotransporting polypeptide (NTCP).

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
TBD	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.22 mL	11.12 mL	22.24 mL
5 mM	0.44 mL	2.22 mL	4.45 mL
10 mM	0.22 mL	1.11 mL	2.22 mL
50 mM	0.04 mL	0.22 mL	0.44 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

Kaneko M, Futamura Y, Tsukuda S, Kondoh Y, Sekine T, Hirano H, Fukano K, Ohashi H, Saso W, Morishita R, Matsunaga S, Kawai F, Ryo A, Park SY, Suzuki R, Aizaki H, Ohtani N, Sureau C, Wakita T, Osada H, Watashi K. Chemical array system, a platform to identify novel hepatitis B virus entry inhibitors targeting sodium taurocholate cotransporting polypeptide. *Sci Rep.* 2018 Feb 9;8(1):2769. doi: 10.1038/s41598-018-20987-w. PMID: 29426822; PMCID: PMC5807303.

In vivo study

TBD

7. Bioactivity

Biological target:

NPD8716 is a hepatitis B/D virus entry inhibitor.

In vitro activity

One of such compound, NPD8716, a coumarin derivative, interacted with NTCP and inhibited HBV infection without causing cytotoxicity. Consistent with its NTCP interaction capacity, this compound was shown to block viral attachment to host hepatocytes. NPD8716 also prevented the infection with hepatitis D virus, but not hepatitis C virus, in agreement with NPD8716 specifically inhibiting NTCP-mediated infection.

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Reference: Sci Rep. 2018 Feb 9;8(1):2769. <https://pubmed.ncbi.nlm.nih.gov/29426822/>

In vivo activity

TBD

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.