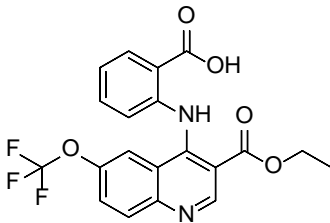


# Product data sheet



MedKoo Cat#: 463709 Name: BCH001 CAS#: 384859-58-9 Chemical Formula: C <sub>20</sub> H <sub>15</sub> F <sub>3</sub> N <sub>2</sub> O <sub>5</sub> Exact Mass: 420.0933 Molecular Weight: 420.34	
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:

BCH001 is a specific PAPD5 inhibitor that restored telomerase activity and telomere length in DC patient induced pluripotent stem cells.

## 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	125.0	297.38

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.38 mL	11.90 mL	23.79 mL
5 mM	0.48 mL	2.38 mL	4.76 mL
10 mM	0.24 mL	1.19 mL	2.38 mL
50 mM	0.05 mL	0.24 mL	0.48 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. Nagpal N, Wang J, Zeng J, Lo E, Moon DH, Luk K, Braun RO, Burroughs LM, Keel SB, Reilly C, Lindsley RC, Wolfe SA, Tai AK, Cahan P, Bauer DE, Fong YW, Agarwal S. Small-Molecule PAPD5 Inhibitors Restore Telomerase Activity in Patient Stem Cells. *Cell Stem Cell*. 2020 Jun 4;26(6):896-909.e8. doi: 10.1016/j.stem.2020.03.016. Epub 2020 Apr 21. PMID: 32320679; PMCID: PMC7275922.

In vivo study

TBD

## 7. Bioactivity

Biological target: BCH001 is a specific PAPD5 inhibitor.

In vitro activity

BCH001 restored telomerase activity and telomere length in dyskeratosis congenita (DC) patient induced pluripotent stem cells.

Reference: *Cell Stem Cell*. 2020 Jun 4;26(6):896-909.e8. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7275922/>

# Product data sheet



In vivo activity

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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.*