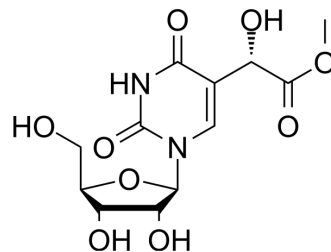


## (S)-mchm5U

Cat. No.:	HY-153100A		
CAS No.:	89665-83-8		
Molecular Formula:	C <sub>12</sub> H <sub>16</sub> N <sub>2</sub> O <sub>9</sub>		
Molecular Weight:	332.26		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 125 mg/mL (376.21 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.0097 mL	15.0485 mL	30.0969 mL
5 mM	0.6019 mL	3.0097 mL	6.0194 mL
10 mM	0.3010 mL	1.5048 mL	3.0097 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

(S)-mchm5U is a hydroxylated form of mcm5U, may be present in tRNA from the silkworm *Bombyx mori*. (S)-mchm5U may be present also in mammalian tRNA, and that the ALKBH8 oxygenase could be responsible for its formation. (S)-mchm5U can be used for RNA modification synthesis<sup>[1]</sup>.

### REFERENCES

[1]. van den Born E, et al. ALKBH8-mediated formation of a novel diastereomeric pair of wobble nucleosides in mammalian tRNA. *Nat Commun.* 2011 Feb 1;2:172.

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

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