Screening Libraries

Product Data Sheet

Tofersen

Tofersen

Cat. No.: HY-132580 CAS No.: 2088232-70-4

Molecular Weight: 7128

DNA, d([2'-O-(2-methoxyethyl)]m5rC-sp-[2'-O-(2-methoxyethyl)]rA-[2'-Sequence:

> thyl)]rG-sp-[2'-O-(2-methoxyethyl)]rG-[2'-O-(2-methoxyethyl)]rA-sp-Tsp-A-sp-m5C-sp-m $-A-sp-T-sp-T-sp-m5C-sp-T-sp-A-sp-[2'-O-(2-methoxyethyl)]\\ m5rC-[2'-O-(2-methoxyethyl)]$ xyethyl)]rA-sp-[2'-O-(2-methoxyethyl)]rG-[2'-O-(2-methoxyethyl)]m5rC-sp-[2'-O-(2-m

ethoxyethyl)]m5rU)

DNA/RNA Synthesis Target: Cell Cycle/DNA Damage Pathway:

-20°C, stored under nitrogen, away from moisture Storage:

* In solvent: -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from

moisture)

SOLVENT & SOLUBILITY

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H₂O: 100 mg/mL (14.03 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	0.1403 mL	0.7015 mL	1.4029 mL
	5 mM	0.0281 mL	0.1403 mL	0.2806 mL
	10 mM	0.0140 mL	0.0701 mL	0.1403 mL

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

In Vivo

1. Add each solvent one by one: PBS

Solubility: 100 mg/mL (14.03 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

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Desc	ш	ווטווי

Tofersen (BIIB067) is an antisense oligonucleotide that mediates RNase H-dependent degradation of superoxide dismutase 1 (SOD1) mRNA to reduce the synthesis of SOD1 protein. Tofersen can be used for the research of amyotrophic lateral

sclerosis (ALS)^[1].

In Vitro

Tofersen targets the SOD1 mRNA using antisense oligonucleotides (ASOs) that bind to the SOD1 mRNA by Watson-Crick base pairing. Tofersen activates RNase H1 that destroys the targeted RNA^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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[1]. Miller T, et, al. Phase 1-2 Trial of Antisense Oligonucleotide Tofersen for SOD1 ALS. N Engl J Med. 2020 Jul 9;383(2):109-119.	
[2]. McCampbell A, et, al. Antisense oligonucleotides extend survival and reverse decrement in muscle response in ALS models. J Clin Invest. 2018 Aug 1;128(8):3558-3567	⁷ .
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REFERENCES

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