Tominersen

Cat. No.:	HY-132579
CAS No.:	1709886-74-7
Molecular Weight:	7078
Target:	Huntingtin
Pathway:	Neuronal Signaling
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

H_2O : 50 mg/mL (7.06 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	0.1413 mL	0.7064 mL	1.4128 mL
	5 mM	0.0283 mL	0.1413 mL	0.2826 mL
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

Tominersen (RG6042) is a second-generation 2′-O-(2-methoxyethyl) antisense oligonucleotide that targets huntingtin protein (HTT) mRNA and potently suppresses HTT production. Tominersen improves survival and reduces brain atrophy in mice. Tominersen can be used for the research of Huntington's disease (HD)[1][2].

In Vitro

Tominersen binds to its cognate mRNA by means of Watson-Crick base-pair interactions, triggering RNase H1-mediated degradation of the target mRNA[1].

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

In Vivo

Tominersen can be detected in the neurons of most brain regions, including the frontal cortex, striatum, thalamus, midbrain, brainstem and cerebellum after delivering into the CNS[2].

Tominersen effectively suppresses huntingtin accumulation, and generates sustained phenotypic reversal in HD-like disease after transient huntingtin reduction in rodents[2].

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

REFERENCES

[1]. Kordasiewicz HB, et al. Sustained therapeutic reversal of Huntington's disease by transient repression of huntingtin synthesis. Neuron. 2012 Jun 21;74(6):1031-44.

[2]. Tabrizi SJ, et, al. Targeting Huntingtin Expression in Patients with Huntington's Disease. N Engl J Med. 2019 Jun 13;380(24):2307-2316.

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