

Mongersen

Cat. No.:	HY-145721
CAS No.:	1443994-46-4
Molecular Weight:	6584
Target:	TGF-beta/Smad
Pathway:	Stem Cell/Wnt; TGF-beta/Smad
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

Mongersen

SOLVENT & SOLUBILITY

In Vitro

H₂O : 20 mg/mL (3.04 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration	1 mg	5 mg	10 mg
1 mM	0.1519 mL	0.7594 mL	1.5188 mL	
5 mM	---	---	---	
10 mM	---	---	---	

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

BIOLOGICAL ACTIVITY

Description

Mongersen (GED-0301) is a specific and orally active SMAD7 antisense oligonucleotide. Mongersen restores TGF-β1 activity leading to inhibition of inflammatory signals. Mongersen can attenuate Crohn's disease-like experimental colitis in mice^{[1][2]}.

In Vivo

Mongersen (125 µg/mouse; p.o. twice a week for 3 weeks) reduces TNBS- or DSS-induced colonic inflammation and colonic fibrosis of mice^[2].

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

Animal Model:	Eight-week-old female BALB/c mice were treated with TNBS ^[2]
Dosage:	125 µg/mouse
Administration:	Oral gavage, twice a week starting from week 5 or week 9 for 3 weeks
Result:	Reduced Smad7 protein expression. Attenuated the ongoing colonic inflammation.

Significantly reduced TNF- α and IL-6 RNA expression.
Attenuated colonic fibrosis.

REFERENCES

- [1]. Monteleone G, et, al. Mongersen, an oral SMAD7 antisense oligonucleotide, and Crohn's disease. N Engl J Med. 2015 Mar 19;372(12):1104-13.
- [2]. Izzo R, et, al. Knockdown of Smad7 With a Specific Antisense Oligonucleotide Attenuates Colitis and Colitis-Driven Colonic Fibrosis in Mice. Inflamm Bowel Dis. 2018 May 18;24(6):1213-1224.
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Caution: Product has not been fully validated for medical applications. For research use only.

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