

ASO 556089

Cat. No.:	HY-148688
Molecular Weight:	5414.6
Target:	Others
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

ASO 556089

SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 100 mg/mL (18.47 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		0.1847 mL	0.9234 mL	1.8469 mL
	5 mM		0.0369 mL	0.1847 mL	0.3694 mL
	10 mM		0.0185 mL	0.0923 mL	0.1847 mL

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

BIOLOGICAL ACTIVITY

Description

ASO 556089 is a 16 nucleotide length gap protein (3-10-3) that targets MALAT1, a long non-coding human and mouse RNA. ASO 556089 is an antisense oligonucleotide (ASO) with the sequence 5'-GmCATTmCTAATAGmCAGmC-3'^[1].

In Vitro

ASO 556089 (0.16-40 μM; 72 h) targeting PCSK9 and MALAT1 in 2D HRPTEC cultures^[1].
ASO 556089 (1 and 10 μM; 48 h) causes target transcriptional downregulation in HRTEC cultured on chip^[1].
ASO 556089 (0.31-5 μM; 48 h) inhibits MALAT1 gene expression in 2D HRPTEC culture^[1].
ASO 556089 (40 μM; 72 h) does not cause cytotoxicity^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nieskens TTG, et al. Nephrotoxic antisense oligonucleotide SPC5001 induces kidney injury biomarkers in a proximal tubule-on-a-chip. Arch Toxicol. 2021 Jun;95(6):2123-2136.

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

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