## Risdiplam

Cat. No.:	HY-109101			
CAS No.:	1825352-65-5			
Molecular Formula:	$C_{22}H_{23}N_{7}O$			
Molecular Weight:	401.46			
Target:	DNA/RNA Synthesis			
Pathway:	Cell Cycle/DNA Damage			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

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### SOLVENT & SOLUBILITY

In Vitro	DMSO : 1.96 mg/mL ( Ethanol : < 1 mg/mL H <sub>2</sub> O : < 0.1 mg/mL (ir	DMSO : 1.96 mg/mL (4.88 mM; ultrasonic and warming and adjust pH to 5 with HCl and heat to 60°C) Ethanol : < 1 mg/mL (insoluble) H <sub>2</sub> O : < 0.1 mg/mL (insoluble)						
Preparing Stock Solutions Please refer to the		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	2.4909 mL	12.4545 mL	24.9091 mL			
	Stock Solutions	5 mM						
		10 mM						
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.						

DIOLOGICAL ACTIVITY				
Description	Risdiplam (RG7916) is an orally administered, centrally and peripherally distributed <i>SMN2</i> pre-mRNA splicing modifier that increases survival motor neuron (SMN) protein levels <sup>[1]</sup> .			
IC <sub>50</sub> & Target	SMN2			
In Vitro	Risdiplam modulates SMN2 pre-mRNA splicing towards the production of full-length SMN2 mRNA and increases SMN protein levels. Risdiplam is a modifier of SMN2 splicing, leading to an increase in SMN2 full length transcript and thus functional SMN protein. Spinal muscular atrophy (SMA) type I remains the most common genetic disease resulting in death in infancy. Characterized by progressive motor and respiratory muscle weakness, this autosomal recessive neuromuscular disorder is caused by low levels of the survival motor neuron protein (SMN) due to inactivating bi-allelic deletions and other disabling mutations in the survival motor neuron 1 (SMN1) gene <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

# Product Data Sheet

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### CUSTOMER VALIDATION

- Nat Commun. 2023 Jun 10;14(1):3435.
- Nucleic Acids Res. 2023 Apr 7;gkad259.
- Nucleic Acids Res. 2021 Sep 7;49(15):8462-8470.
- Cell Mol Life Sci. 2022 Jul 22;79(8):441.
- bioRxiv. 2023 Jul 27.

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#### REFERENCES

[1]. Poirier A, et al. Risdiplam distributes and increases SMN protein in both the central nervous system and peripheral organs. Pharmacol Res Perspect. 2018 Nov 29;6(6):e00447.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA