Proteins

# **Product** Data Sheet

## rTRD01

Cat. No.: HY-153898 CAS No.: 1332175-56-0 Molecular Formula:  $C_{18}H_{21}FN_{4}O_{2}$ Molecular Weight: 344.38 Others Target:

Pathway: Others

Storage: Powder -20°C 3 years

2 years

-80°C In solvent 6 months

> -20°C 1 month

### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 250 mg/mL (725.94 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.9038 mL	14.5188 mL	29.0377 mL
	5 mM	0.5808 mL	2.9038 mL	5.8075 mL
	10 mM	0.2904 mL	1.4519 mL	2.9038 mL

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

## **BIOLOGICAL ACTIVITY**

Description rTRD01 is a TDP-43 ligand that binds to TDP-43's RRM1 and RRM2 domains ( $K_d$ =89 uM for TDP-43 $_{102-269}$ ). rTRD01 partially

disrupts TDP-43's interaction with the hexanucleotide RNA repeat of the disease-linked c9orf72 gene. rTRD01 can be used

for the research of neurodegenerative diseases<sup>[1]</sup>.

Kd: 89 uM (TDP-43<sub>102-269</sub>)<sup>[1]</sup> IC<sub>50</sub> & Target

### **REFERENCES**

[1]. François-Moutal L, et al. Small Molecule Targeting TDP-43's RNA Recognition Motifs Reduces Locomotor Defects in a Drosophila Model of Amyotrophic Lateral Sclerosis (ALS). ACS Chem Biol. 2019 Sep 20;14(9):2006-2013.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$ 

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