

Product Data Sheet

Product Name: rTRD01
Cat. No.: GC71276

Chemical Properties

Cas. No. 1332175-56-0

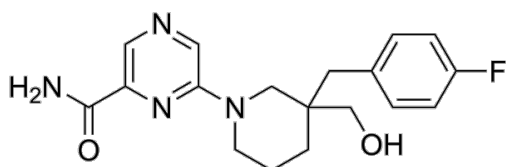
Formula $C_{18}H_{21}FN_4O_2$ M.Wt 344.38

Solubility DMSO : 250 mg/mL (725.94 mM); Storage -20°C
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

rTRD01 is a TDP-43 ligand that binds to TDP-43's RRM1 and RRM2 domains ($K_d=89 \mu M$ for TDP-43102–269). 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.

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

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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.

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