Data Sheet (Cat.No.T61072)



ERD03

Chemical Propert	ies	
CAS No. :	1377897-01-2	o II
Formula:	C21H25NO3	
Molecular Weight:	339.43	
Appearance: 🦲	no data available	но сна
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year	с СН ₃

Biological Description

Description	ERD03, with a dissociation constant (Kd) of $17\pm7 \mu$ M, effectively disrupts the EXOSC3-RNA interaction. It has been shown to induce a PCH1B-like phenotype in zebrafish embryos, making it a valuable tool for research into neurological disorders [1].
In vitro	ERD03 at a concentration of 50 µM disrupts G-rich RNA and EXOSC3 interactions by approximately 18% and triggers notable spinal curvature, mirroring the PCH1B phenotype in zebrafish embryos. Additionally, this compound significantly increases ataxin1b mRNA levels (~6-fold) while moderately increasing ataxin1a mRNA levels in embryos. Furthermore, ERD03 leads to a reduction in zebrafish cerebellum size, resulting in cerebella that are half the size of those in control groups treated with DMSO.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9461 mL	14.7306 mL	29.4612 mL
5 mM	0.5892 mL	2.9461 mL	5.8922 mL
10 mM	0.2946 mL	1.4731 mL	2.9461 mL
50 mM	0.0589 mL	0.2946 mL	0.5892 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481