

RTC14

## Chemical Properties

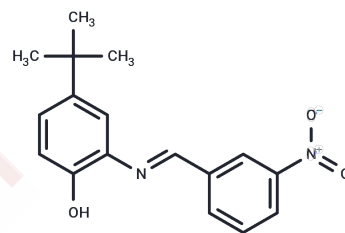
CAS No. : 414909-09-4

Formula: C<sub>17</sub>H<sub>18</sub>N<sub>2</sub>O<sub>3</sub>

Molecular Weight: 298.34

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	RTC14, as a premature termination codon (PTC) readthrough inducer, can act by restoring dystrophin expression and improving muscle function in the mdx mouse model for Duchenne muscular dystrophy.
Targets(IC50)	Others,DNA/RNA Synthesis

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3519 mL	16.7594 mL	33.5188 mL
5 mM	0.6704 mL	3.3519 mL	6.7038 mL
10 mM	0.3352 mL	1.6759 mL	3.3519 mL
50 mM	0.067 mL	0.3352 mL	0.6704 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Gómez-Grau M, Garrido E, Cozar M, Rodriguez-Sureda V, Domínguez C, Arenas C, Gatti RA, Cormand B, Grinberg D, Vilageliu L. Evaluation of Aminoglycoside and Non-Aminoglycoside Compounds for Stop-Codon Readthrough Therapy in Four Lysosomal Storage Diseases. *PLoS One*. 2015 Aug 19;10(8):e0135873. doi: 10.1371/journal.pone.0135873. eCollection 2015. PubMed PMID: 26287674; PubMed Central PMCID: PMC4545610.

Kuschal C, DiGiovanna JJ, Khan SG, Gatti RA, Kraemer KH. Repair of UV photolesions in xeroderma pigmentosum group C cells induced by translational readthrough of premature termination codons. *Proc Natl Acad Sci U S A*. 2013 Nov 26;110(48):19483-8. doi: 10.1073/pnas.1312088110. Epub 2013 Nov 11. PubMed PMID: 24218596; PubMed Central PMCID: PMC3845163.

Kayali R, Ku JM, Khitrov G, Jung ME, Prikhodko O, Bertoni C. Read-through compound 13 restores dystrophin expression and improves muscle function in the mdx mouse model for Duchenne muscular dystrophy. *Hum Mol Genet*. 2012 Sep 15;21(18):4007-20. doi: 10.1093/hmg/dds223. Epub 2012 Jun 12. PubMed PMID: 22692682; PubMed Central PMCID: PMC3607466.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481