# dsRNA Standard(1mg/mL)

## Product description

| No. | Product name | Specification | Cat. No. |
|---|---|---|---|
| 1 | dsRNA(UTP) | 100 μL | 10601 |
| 2 | dsRNA(N1-Me-pUTP) | 100 μL | 10602 |
| 3 | dsRNA(Pseudo-UTP) | 100 μL | 10603 |

## Storage condition and Transportation

1. The product is stored at -80℃, valid for 12 months.

2. Dry ice transportation.

## Precautions

1. Avoid repeated freezing and thawing during use the product.

2. For safety and health of the operator, please wear a lab coat and disposable gloves when operating.
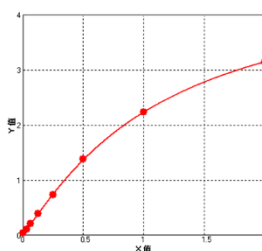
## Application examples (dilution gradient recommendations)

| No. | Volume of standard | Volume of diluent (μL) | Concentration of standard |
|---|---|---|---|
| Pre-A | Take 5 μL of dsRNA standard (1 mg/mL). | 45 | 100 ng/μL |
| Pre-B | Take 10 μL of Pre-A | 190 | 5 ng/μL |
| S0 | Take 10 μL of Pre-B | 490 | 100 pg/μL |
| S1 | Take 10 μL of S0 | 490 | 2 pg/μL |
| S2 | Take 250 μL of S1 | 250 | 1 pg/μL |
| S3 | Take 250 μL of S2 | 250 | 0.5 pg/μL |
| S4 | Take 250 μL of S3 | 250 | 0.25 pg/μL |
| S5 | Take 250 μL of S4 | 250 | 0.125 pg/μL |
| S6 | Take 250 μL of S5 | 250 | 0.0625 pg/μL |
| S7 | Take 250 μL of S6 | 250 | 0.03125 pg/μL |
| S8 | NA | 250 | 0 |

Fig.1 For dsRNA standard (UTP)

dsRNA std (UTP)  standard curve

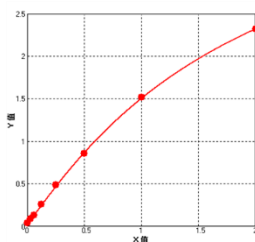| <> | OD value | | Conc. (pg/ul) | OD value AVE |
|---|---|---|---|---|
| A | 3.0421 | 3.2491 | 2 | 3.1456 |
| B | 2.2153 | 2.2497 | 1 | 2.2325 |
| C | 1.3661 | 1.4059 | 0.5 | 1.386 |
| D | 0.7431 | 0.7339 | 0.25 | 0.7385 |
| E | 0.3895 | 0.3937 | 0.125 | 0.3916 |
| F | 0.2165 | 0.2122 | 0.0625 | 0.21435 |
| G | 0.1073 | 0.1111 | 0.03125 | 0.1092 |
| H | 0.0387 | 0.0363 | 0 | 0.0375 |



Four-parameter Logistic curve fitting
Equation: $y = (A - D) / [1 + (x/C)^B] + D$
A = 4.73792
B = -1.14794
C = 1.11815
D = 0.03843
r^2 = 0.99994

## Fig.2 For dsRNA standard (N1-Me-pUTP)

dsRNA std (N1-Me-pUTP) standard curve

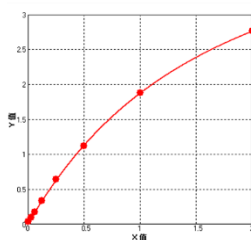| <> | OD value | | Conc. (pg/ul) | OD value AVE |
|----|--------|--------|------|--------|
| A | 2.3474 | 2.295 | 2 | 2.3212 |
| B | 1.5089 | 1.5262 | 1 | 1.51755 |
| C | 0.8708 | 0.8366 | 0.5 | 0.8537 |
| D | 0.4853 | 0.4813 | 0.25 | 0.4833 |
| E | 0.258 | 0.2564 | 0.125 | 0.2572 |
| F | 0.1332 | 0.1322 | 0.0625 | 0.1327 |
| G | 0.0871 | 0.0836 | 0.03125 | 0.08535 |
| H | 0.0387 | 0.0363 | 0 | 0.0375 |



Four-parameter Logistic curve fitting
Equation : $y = (A - D) / [1 + (x/C)^B] + D$
A = 4.49500
B = -1.09578
C = 1.90869
D = 0.03718
$r^2$ = 0.99986

## Fig.3 For dsRNA standard (Pseudo-UTP)

dsRNA std (Pseudo-UTP) standard curve

| <> | OD value | | Conc. (pg/ul) | OD value AVE |
|----|--------|--------|------|--------|
| A | 2.7979 | 2.7268 | 2 | 2.76235 |
| B | 1.8466 | 1.9141 | 1 | 1.88035 |
| C | 1.1082 | 1.1396 | 0.5 | 1.1239 |
| D | 0.6477 | 0.6449 | 0.25 | 0.6463 |
| E | 0.3389 | 0.3349 | 0.125 | 0.3369 |
| F | 0.1728 | 0.1761 | 0.0625 | 0.17445 |
| G | 0.0948 | 0.0986 | 0.03125 | 0.0967 |
| H | 0.0387 | 0.0363 | 0 | 0.0375 |



Four-parameter Logistic curve fitting
Equation : $y = (A - D) / [1 + (x/C)^B] + D$
A = 4.92200
B = -1.05855
C = 1.60121
D = 0.02931
$r^2$ = 0.99992