**Ordering Oligos**

* Set up an account with us by clicking the "Get Password" link in the upper left of the Keck Oligo Synthesis ordering webpage. It may take up to 1 business day to receive your password.
* DO NOT USE SOMEONE ELSE’S PASSWORD AS THIS WILL ONLY CAUSE CONFUSION AND MAY SERIOUSLY DELAY DELIVERY OF YOUR OLIGOS!!!
* Once you have received your password, place your order by clicking the "Order Normal DNA, RNA, or 2'-O methyl RNA" or "Order Modified Oligos" link in the upper left of the Keck Oligo Synthesis Ordering webpage.

**Order Status**

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**Modifications**

* We will incorporate most commercially available modifiers, as long as it is particulate-free and non-radioactive.
* To avoid issues of improper storage and handling, we recommend allowing us to order the modified phosphoramidite/column.
* To ensure freshness, we order most specialty reagents at the time your order is placed. ***We do not attempt to use leftover reagents as that may result in less-than-optimal coupling.***

**RNA and 2'-O-methyl RNA**

* RNA and 2'-O-methyl RNA are available only at the 1.0 μmole scale.
* RNA oligos are provided with the 2' protecting group removed and cartridge purified.
* 2'-O-methyl RNAs are available unpurified, or cartridge purified.

**Synthesized Oligo Information**

* Each order of individual vials containing dried unmodified oligo is returned to you with associated information sheets that have the sequence, sequence name, total μg, total nmoles, and the μL volume required to reconstitute to 100 μM for each oligo.

**Turnaround Times**

* ***Orders submitted after 5:00 PM may not be processed until the next business day.***
* Turnaround time for normal, unpurified, 25 and 40 nanomole DNA oligos is typically 24 hours for <120-mers, delivered the following business afternoon via Yale couriers.
* Normal, unpurified DNA oligos **>119 bases**, normal, unpurified RNA oligos, or those synthesized at the **200 nanomole or 1.0 micromole scale** may take 5-7 business days due to longer synthesis and deprotection times.
* Turnaround times for RNA, specialty, or modified oligos vary but are typically 5-10 business days.
* HPLC purification typically adds 3-5 business days depending on the size of the order.

**Note: Inclement weather can sometimes increase turnaround times.**

**Synthesis Scales**

* Synthesis scales of 25 nmole, 100 nmole, 200 nmole, and 1.0 μmole are routinely available for unmodified oligos.
* Modified oligos are available at the 40 nmole, 200 nmole, and 1.0 μmole synthesis scales.
* Oligos with a 3' modification can only be made at the 200 nmole or 1 μmole synthesis scales.
* If you need more than 1.0 micromole of a given sequence, please order multiple 1.0 micromole syntheses.

**Sequence Length**

* 25 nmole syntheses cannot be longer than 65 bases.
* Sequence length for other synthesis scales cannot exceed 200 residues.
* 40 nmole scale syntheses longer than 119 bases must be synthesized on specialty machines at a higher cost per base.
* For sequences longer than 100 bases we recommend synthesis at the 200 nanomole or 1.0 μmole scale. We will synthesize oligos longer than 100mers at 40 nanomole if you specifically request that we do so, but adequate yields cannot be guaranteed.

|  |  |  |
| --- | --- | --- |
| ***Synthesis Services*** | *Cost per Base* | |
| *Yale* | *Non-Yale\** |
| **25 nanomole scale-PLATES for >47 oligos (DESALTED, ≤65 bases/un-modified)** (Yield of final product will be <25 nmoles) | $0.22 | $0.28 |
| **25 nanomole scale-TUBES (DESALTED, ≤65 bases/un-modified)**  (Yield of final product will be <25 nmoles) | $0.23 | $0.31 |
| **100 nanomole scale-PLATES for >47 oligos (DESALTED, 1-119 bases/unmodified)**  (Yield of final product will be <100 nmoles) | $0.27 | $0.35 |
| **100 nanomole scale-TUBES (DESALTED, 1-119 bases/unmodified)**  (Yield of final product will be <100 nmoles) | $0.30 | $0.37 |
| **40 nanomole scale** **(>119 bases and/or modified)**  (Yield of final product will be <40 nmoles) | $0.57 | $0.70 |
| **200 nanomole scale**  (Yield of final product will be <200 nmoles) | $0.88 | $1.15 |
| **1.0 micromole Scale**  (Yield of final product will be < 1.0 umole) | $2.20 | $2.75 |
| **RNA/2’-OMe (1.0 micromole scale)**  (Yield of final product will be < 1.0 umole) | $17.00 | $21.00 |
| ***Purification Services*** | *Surcharge per oligo* | |
| *Yale* | *Non-Yale\** |
| **Cartridge Purification DNA** (40nmole, 100nmole, 200nmole, 1.0 µmole) | $17.00 | $25.00 |
| **RP-HPLC DNA** (40nmole, 100nmole, 200nmole, 1.0 µmole) (<100 bases) | $58.00 | $72.00 |
| **2’-Deprotection/Cartridge Purification of RNA** | $58.00 | $73.00 |
| **40 nanomole PAGE Purification** (DNA only) | $52.00 | $65.00 |
| **200 nanomole PAGE Purification** (DNA only) | $90.00 | $110.00 |
| **1.0 micromole PAGE Purification** (DNA only) | $285.00 | $355.00 |
| ***Consulting Services*** | *Consulting Charge per hour* | |
| *Yale* | *Non-Yale\** |
| **Consult Meeting/Research**  (i.e. Experimental Requests Requiring Research) | $30.00 | $51.75 |
| **Custom Processing** (i.e. Custom Synthesizer Programming) | Request A Quote | |
| **Custom Processing** (i.e. Pooling, Normalization, Special Packaging) | Request A Quote | |

 are the rates for our Standard **unmodified**Oligos

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* To ensure freshness, we order most specialty reagents at the time your order is placed. ***We do not attempt to use leftover reagents as that may result in less-than-optimal coupling.***

**RNA and 2'-O-methyl RNA**

* RNA and 2'-O-methyl RNA are available only at the 1.0 μmole scale.
* RNA oligos are provided with the 2' protecting group removed and cartridge purified.
* 2'-O-methyl RNAs are available unpurified, or cartridge purified.

**Synthesized Oligo Information**

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| **2’-Deprotection/Cartridge Purification RNA** | $58.00 | $73.00 |
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**RNA and 2'-O-methyl RNA**

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* 2'-O-methyl RNAs are available unpurified, or cartridge purified.

**Synthesized Oligo Information**

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**RNA and 2'-O-methyl RNA**

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**Synthesis Scales**

* Synthesis scales of 25 nmole, 100 nmole, 200 nmole, and 1.0 μmole are routinely available for unmodified oligos.
* Modified oligos are available at the 40 nmole, 200 nmole, and 1.0 μmole synthesis scales.
* Oligos with a 3' modification can only be made at the 200 nmole or 1 μmole synthesis scales.
* If you need more than 1.0 micromole of a given sequence, please order multiple 1.0 micromole syntheses.

**Sequence Length**

* 25 nmole syntheses cannot be longer than 65 bases.
* Sequence length for other synthesis scales cannot exceed 200 residues.
* 40 nmole scale syntheses longer than 119 bases must be synthesized on specialty machines at a higher cost per base.
* For sequences longer than 100 bases we recommend synthesis at the 200 nanomole or 1.0 μmole scale. We will synthesize oligos longer than 100mers at 40 nanomole if you specifically request that we do so, but adequate yields cannot be guaranteed.

|  |  |  |
| --- | --- | --- |
| *Synthesis Services* | *Cost/base*  *Yale* | *Cost/base*  *non-Yale* |
| **25 nanomole scale-PLATES for >47 oligos (DESALTED, ≤65 bases/un-modified)** (Yield of final product will be <25 nmoles) | $0.22 | $0.28 |
| **25 nanomole scale-TUBES (DESALTED, ≤65 bases/un-modified)**  (Yield of final product will be <25 nmoles) | $0.23 | $0.31 |
| **100 nanomole scale-PLATES for >47 oligos (DESALTED, 1-119 bases/unmodified)**  (Yield of final product will be <100 nmoles) | $0.27 | $0.35 |
| **100 nanomole scale-TUBES (DESALTED, 1-119 bases/unmodified)**  (Yield of final product will be <100 nmoles) | $0.30 | $0.37 |
| **40 nanomole scale** **(>119 bases and/or modified)**  (Yield of final product will be <40 nmoles) | $0.57 | $0.70 |
| **200 nanomole scale**  (Yield of final product will be <200 nmoles) | $0.88 | $1.15 |
| **1.0 micromole Scale**  (Yield of final product will be < 1.0 umole) | $2.20 | $2.75 |
| **RNA/2’-OMe (1.0 micromole scale)**  (Yield of final product will be < 1.0 umole) | $17.00 | $21.00 |
| *Purification Services* | *Surcharge per oligo* | |
| *Yale* | *Non-Yale* |
| **Cartridge Purification DNA** (40nmole, 100nmole, 200nmole, 1.0 µmole) | $17.00 | $25.00 |
| **RP-HPLC DNA** (40nmole, 100nmole, 200nmole, 1.0 µmole) | $58.00 | $72.00 |
| **2’-Deprotection/Cartridge Purification RNA** | $58.00 | $73.00 |
| **Custom Processing** (i.e. Pooling, Normalization, Special Packaging) | Request A Quote | |