

PseudoUridine Phosphoramidites for Efficient and Reliable Syntheses of RNA Oligonucleotides

BOC Sciences provides pseudoUridine phosphoramidites for efficient and reliable syntheses of RNA oligonucleotides containing single or multiple pseudoUridine modifications.

New York City, New York Aug 17, 2022 ([Issuewire.com](https://www.issuewire.com)) - BOC Sciences provides pseudoUridine phosphoramidites for efficient and reliable syntheses of RNA oligonucleotides containing single or multiple pseudoUridine modifications.

PseudoUridine is one of the most common modified nucleotides found in RNA, while phosphoramidites act as building blocks in the chemical synthesis of oligonucleotides. The availability of phosphoramidites will allow researchers to further investigate and comprehend the effects of these modifications on RNA structure and activity. Meanwhile, pseudoUridine phosphoramidite can help introduce pseudoUridine into RNA oligonucleotide. Depending on the locations, pseudoUridine modifications affect the structure, function, and stability of RNA.

As the largest pseudoUridine supplier in the world, BOC Sciences announced to help researchers synthesize high-quality DNA and RNA oligonucleotides with confidence. It provides phosphoramidite pseudoUridine complexes along with the 2'-TBDMS and 5'-DMT protecting groups to prevent uracil-DNA glycosylase and enhance the stabilization of triple-stranded DNA. Its featured pseudoUridine phosphoramidites encompass [2'-deoxypseudoU-CE Phosphoramidite](#) (CAS No. 289712-98-7), 5'-DMT-N1-Methyl-PseudoUridine (CAS No. 875302-39-9), 5'-DMT-2'-O-TBDMS-PseudoUridine-CE-Phosphoramidite (CAS No. 163496-23-9), *etc.* Leveraging a robust portfolio of technology and platform, BOC Sciences can make sure all chemicals are of the highest quality and purity standards.

In addition to pseudoUridine phosphoramidites, BOC Sciences also provides many other modified pseudouridines and isotope-labeled pseudouridines that can be used for studies of epitranscriptomics, epigenetic enzymology or biochemistry research, or diagnostic test R&D. With years of experience in engineered nucleic acid, pseudoUridine and its derivatives, the capability of BOC Sciences in synthesis, modification, scale-up, and innovative purification strategies has been generally acknowledged.

“At present, our pseudoUridine products are mainly used as raw materials for pharmaceuticals and research institutions who require a highly defined impurity profile and tightly controlled process in the development of mRNA vaccine against COVID-19.” A senior scientist of BOC Sciences stated. “As always, we’ve been encouraged by our clients to develop more efficient compounds and explore promising therapeutic potentials utilizing our expertise and facile synthetic strategies.”

About BOC Sciences

BOC Sciences has become the largest supplier of pseudoUridine in the world in terms of production capacity. Its annual output of [pseudoUridine](#) is currently over 500 kg. As researchers continue to investigate in fields such as the suppression of premature termination codons, potential alternative genetic codes, and the function of conditional pseudouridylation of mRNA, the interest in PseudoUridine CE Phosphoramidite is expected to grow continuously. BOC Sciences is ready to fulfill the client's requirements and needs in pseudoUridine phosphoramidites and other components.

Media Contact

BOC Sciences

account@bocsci.com

1-631-485-4226

Source : BOC Sciences

[See on IssueWire](#)