

DATA SHEET

U6 fluorescenated oligo probe

Catalog No.
PR031-100

Description
One vial of 0.650 ml of probe in hybridization buffer

Analyte Specific Reagent. Analytical and performance characteristics are not established.

Doc. No. 932-PR031-100 Rev B

Date of release: 20-Aug-2020

Description

U6 snRNA is the non-coding small nuclear RNA (snRNA) component of U6 snRNP (small nuclear ribonucleoprotein). The U6 snRNA sequence is highly conserved and the function of the U6 snRNA has remained crucial and unchanged through evolution. The U6 cellular transcript is available in abundance with intranuclear distribution in cell/tissue. The U6 fluorescenated oligo probe is designed to bind to human U6 small nuclear RNA.

Specifications

The U6 probe identifies snRNA U6 sequences in formalin-fixed, paraffin-embedded human tissues and freshly prepared frozen tissues by *in situ* hybridization. This probe does not react with normal human mRNA or nuclear DNA present in tissues.

Storage and Handling

Store the reagent at 2-8 °C. Do not freeze. Do not use after expiration date on vial. The reagent must be brought to room temperature before use. (Important! The presence of precipitates induces background staining).

Precautions:

For professional use. The probe contains formamide. Formamide is classified as a teratogen. Pregnant workers should keep exposure to a minimum. Avoid inhalation, ingestion, and contact with unprotected skin. If skin contact occurs, wash thoroughly with soap and water. For more information, refer to the Material Safety Data Sheet, which is available upon request.

Quality Control

Each lot of this probe is tested by *In Situ* hybridization for Quality Control purposes. Refer to the BioGenex Quality Control Testing Conditions table for additional information.

References

1. Kloosterman WP. et al. *in situ* detection of miRNAs in animal embryos using LNA-modified oligonucleotide probes. *Nature Methods*, 3, 27 – 29 (2006).
2. Wheeler G. et al. *In situ* detection of animal and plant microRNAs. *DNA Cell Biol*, 26, 251–255 (2007).
3. Nuovo GJ. In situ detection of precursor and mature microRNAs in paraffin embedded, formalin fixed tissues and cell preparations. *Methods* 44(1),39–46 (2008).
4. Song R. et al. *In situ* hybridization detection of microRNAs. *Methods Mol Biol*. 629, 287-94 (2010).

BioGenex Quality Control Testing Conditions

Parameter	Conditions used
Control Tissue	N/A
Tissue Type	Formalin-fixed, paraffin-embedded cancer tissues