

DATA SHEET
Hsa-miR-101 fluoresceinated oligo probe**Catalog No.**
HM101-100**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-HM101-100

Rev. B

Date of release: 11-Aug-2020

Description

The Hsa-miR-101 probe has been designed from mature human miR-101 sequence. This fluoresceinated probe is provided in a hybridization buffer for localization of miRNA in FFPE tissue by *In Situ* hybridization.

Specifications

The Hsa-miR-101 identifies mature miR-101 sequences in formalin-fixed, paraffin-embedded human tissues and/or 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 the reagent 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 miRNA 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. Wang HJ, et al.. (2010). MicroRNA-101 is down-regulated in gastric cancer and involved in cell migration and invasion. *Eur J Cancer* 46, 2295-303.
2. Zhang JG, et al.. (2011). MicroRNA-101 exerts tumor-suppressive functions in non-small cell lung cancer through directly targeting enhancer of zeste homolog 2. *J Thorac Oncol* 6, 671-8.
3. He XP, et al.. (2012). Downregulation of miR-101 in gastric cancer correlates with cyclooxygenase-2 overexpression and tumor growth. *FEBS J* 279, 4201-12.
4. Guan H, et al.. (2016). MicroRNA-101 inhibits cell proliferation and induces apoptosis by targeting EYA1 in breast cancer. *Int J Mol Med* 37(6), 1643-51.
5. Chang Z, et al.. (2014). Blocked autophagy by miR-101 enhances osteosarcoma cell chemosensitivity in vitro. *ScientificWorldJournal* 794756.
6. Zhang K, et al.. (2014). MicroRNA-101 inhibits the metastasis of osteosarcoma cells by downregulation of EZH2 expression. *Oncol Rep* 32, 2143-9.

BioGenex Quality Control Testing Conditions

| Parameter | Conditions used |
|----------------|--|
| Control Tissue | FB-HM101 |
| Tissue Type | Formalin-fixed, paraffin-embedded cancer tissues |