

## CXCL10 eFISH Probe

Catalog No	Description
FR027-20	0.22 mL of ready-to-use oligo-conjugated mRNA probe*
CP201-20	0.22 mL of complementary probe conjugated with FAM fluorophore*

\* For 18x18 slides, addition of 10 µL probe is recommended.

### Intended Use

**For Research Use only.** This eFISH mRNA probe is designed for the specific localization of c-x-c motif chemokine ligand 10 (CXCL10) mRNA in formalin-fixed, paraffin embedded (FFPE) tissue sections. Interpretation of results must be done by experienced personnel.

### Summary and Explanation

CXCL10 is a small pro-inflammatory chemokine and is a ligand for CXCR3. Together, they mediate immune responses through the activation of T cells, eosinophils, monocytes, and NK cells. CXCL10 is secreted by various cells in response to IFN- $\gamma$ . It is crucial chemokine during the recruitment of cytotoxic CD8+ T lymphocytes that are specific for tumor antigens in the tumor microenvironment. Immune cells such as macrophages and dendritic cells and to a lesser extent, melanoma cells produce this chemokine. Binding of CXCL10 to CXCR3 recruits Th1 cells to the site of inflammation to clear the intracellular pathogens. Further, CXCL10 plays an important role in cancer development including pancreatic adenocarcinoma. It has also been shown that immune checkpoint inhibitory response is strongly correlated with CXCL10 expression. This implicates the need for further studies for the applicability of CXCL10 as a therapeutic target.

### Storage and Handling

**Store at -20 °C.** Allow the reagents to reach ambient temperature before use.

### Reagents Provided

One vial of eFISH probe and one vial of corresponding fluorophore-labeled complementary probe.

### Recommended Protocol

#### Manual:

<https://omicsveu.com/wpcontent/uploads/Brochures/914-0083.0.pdf>

#### Automation:









<https://omicsveu.com/wpcontent/uploads/Brochures/914-0082.0.pdf>

#### For more information:

<https://omicsveu.com/wpcontent/uploads/Brochures/914-0084.0.pdf>

#### Bibliography

- [10.1007/978-3-642-16712-6\\_518](https://doi.org/10.1007/978-3-642-16712-6_518)
- <http://dx.doi.org/10.1136/jitc-2021-003521>

	Temperature Limitation		For Research Use Only
	Use By Date		Batch Code
	Non-Sterile		Consult Instructions for Use
	Catalogue Number		<b>BioGenex</b>

#### Distributed by: omicsveu

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Category	eFISH Probes	Revision No.	A
Document No.	932-FR027-20	Release Date	