

# Fluorescent probe for Copper

**Catalogue number:** 153939

**Sub-type:** Fluorescent Probe

**Images:**

## Contributor

**Inventor:** Christoph J. Fahrni

**Institute:** Georgia Institute Of Technology

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Fluorescent probe for Copper

**Alternate name:**

**Class:**

**Conjugate:**

**Description:** Copper is an essential trace element that is central to a broad range of biological processes, including cellular respiration, connective tissue formation, pigment synthesis, antioxidant defense, and photosynthesis in plants and bacteria. The measurement of reliable Cu(I) protein binding affinities requires competing reference ligands with similar binding strengths; however, the literature on such reference ligands is not only sparse but often conflicting. Here, Dr. Fahrni has designed a wat...

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:**

**Reactivity:**

**Selectivity:**

**Host:**

**Immunogen:**

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:**

**Target alternate names:**

**Target background:**

**Molecular weight:**

**Ic50:**

## Applications

**Application:** determination of Cu(I) binding affinities of proteins and small-molecule ligands

**Application notes:**

## Handling

**Format:**

**Concentration:**

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:**

**Shipping conditions:**

## Related tools

**Related tools:**

## References

**References:** Bagchi et al. 2013. J Am Chem Soc. 135(49):18549-59. PMID: 24298878. ; Robust

affinity standards for Cu(I) biochemistry.

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