

# Fungi Endoplasmic Reticulum Tracker 2 small molecule (tool compound)

**Catalogue number:** 157731

**Sub-type:** Fluorescent Probe

**Images:**

## Contributor

**Inventor:** Micha Fridman

**Institute:** Tel Aviv University

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Fungi Endoplasmic Reticulum Tracker 2 small molecule (tool compound)

**Alternate name:**

**Class:**

**Conjugate:**

**Description:** In fungal cells, the endoplasmic reticulum (ER) harbours several of the enzymes involved in the biosynthesis of ergosterol, an essential membrane component, making this organelle the site of action of antifungal azole drugs, used as a first-line treatment for fungal infections. This marker provides specific fluorescent labelling of this organelle in cells of live pathogenic fungi. Specifically, the marker is an antifungal azole-based fluorescent tracking reagent of the ER in live fungal cells...

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:**

**Reactivity:**

**Selectivity:** Highly specific for Endoplasmic Reticulum.

**Host:**

**Immunogen:**

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:** This tracker is optimised for use in fungi, not mammalian or plant cells and has shown superiority to other commercially available ER trackers. It has been evaluated in a panel of *Candida*, including *C. albicans* and *C. glabrata* which are considered the two most common fungal pathogens relevant to human infection. There is weak background signal and high specificity. PMID: 30427174

## Target details

**Target:**

**Target alternate names:**

**Target background:**

**Molecular weight:**

**Ic50:**

## Applications

**Application:** Tracking of the ER in live fungal cells (e.g. *Candida*).

**Application notes:**

## Handling

**Format:**

**Concentration:**

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:** -15° C to -25° C, light protection

**Shipping conditions:**

## Related tools

**Related tools:**

# References

References:

CancerTools.org