

---

## Product Data Sheet

---

Product Name: Inz-1  
 Cat. No.: GC60202

### Chemical Properties

Cas. No. 897776-15-7

SMILES O=C(OC)CN1N=C(C2=CC=CC=C2)C3=C1C=CC=C3

Formula  $C_{16}H_{14}N_2O_2$  M.Wt 266.29

Solubility Storage

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

Inz-1 is a potent and selective mitochondrial cytochrome bc1 inhibitor for yeast (IC<sub>50</sub>=8.092 μM) over humans (IC<sub>50</sub>=45.320 μM). Inz-1 reverses Fluconazole or other triazole antifungals' resistance in the pathogenic fungus *Candida albicans*[1].

Inz-1 (0-16 μM; 24 hours) inhibits the growth of the model yeast *S. cerevisiae* (strain BY4741) and *C. albicans* (SC5314) in media containing glucose or glycerol as the sole carbon source, while only mildly slowing growth in glucose[1]. Inz-1 (0-100 μM; 24 hours) shows inhibition of yeast cytochrome B enzymatic activity in a concentration-dependent manner in both wild-type and F90Y mutant mitochondria. It exhibits inhibition of cytochrome bc1 from both *S. cerevisiae* and *C. albicans* with IC<sub>50</sub> value of 2.5 μM and 8.0 μM, respectively[1]. Inz-1 (0-100 μM; 24 hours) is selective for yeast over human cytochrome bc1, it inhibits human cytochrome bc1 activity only weakly, with an IC<sub>50</sub> of 45.3 μM, 5.6-fold higher than the IC<sub>50</sub> for the *C. albicans* homolog in mitochondria purified from HEK293 human embryonic kidney cells[1]. Inz-1 (0-100 μM; 24 hours) inhibits proliferation under forced respiration conditions only at 32 μM and only mildly at that concentration[1]. Inz-1 is against *Candida*, human enzyme with IC<sub>50</sub> values of 8.092 μM and 45.320 μM, respectively. It against *Candida* and HepG2 respiring growth with

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

IC50 values of 1.655 uM and >32 μM, respectively[1].

[1]. Benjamin M Vincent, et al. A Fungal-Selective Cytochrome Bc 1 Inhibitor Impairs Virulence and Prevents the Evolution of Drug Resistance. Cell Chem Biol. 2016 Aug 18;23(8):978-991.

**Caution: Product has not been fully validated for medical applications. For research use only.**

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**