

**Product Name:** Cellocidin

**Product Number:** C163

**CAS Number:** 543-21-5

**Molecular Formula:**  $C_4H_4N_2O_2$

**Molecular Weight:** 112.1

**Appearance:** White to off white solid

**Storage Conditions:** -20°C

**Description:** Cellocidin is a small neutral alkyne produced by a number of *Streptomyces* species, first discovered by Suzuki and colleagues in 1958. Cellocidin has a broad antibacterial, antifungal and antitumor profile due to its ability to react with endogenous thiols like cysteine and glutathione. Cellocidin occurs as a weak active in many bioassays using actinomycete crude extracts and is thus a useful standard for chemical and bioassay dereplication.

Cellocidin is soluble in ethanol, methanol, DMF and DMSO.

**References:** Cellocidin, a new antibiotic. Suzuki S. et al. J. Antibiot. 1958, 11, 81.

The structure of cellocidin. Suzuki S. & Okuma K. J. Antibiot. 1958, 11, 84.

Antagonistic mechanism of sulfhydryl compounds on cellocidin activity.  
Yoneyama K. et al. J. Antibiot. 1978, 31, 065.