

DATA SHEET

Product Name: Bafilomycin A1

Catalog #: CV-1015

Alt: CAS # 88899-55-2

Source: From *Streptomyces griseus*.

Molecular Mass: 622.8

Analysis: >98% (HPLC); NMR (Conforms)

Supplied As: White powder

Resuspension: May be dissolved in DMSO (50 mg/ml)

Storage: Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 3 months.

Description: A Vacuolar H⁺-ATPase inhibitor, IC₅₀ = 0.6-1.5 nM in bovine chromaffin granules¹. Highly selective for V-ATPase over F-ATPases and P-ATPase. Inhibits autophagy by preventing maturation of autophagic vacuoles via inhibition of fusion between autophagosomes and lysosomes². Inhibits bone resorption in various models³. An extremely useful tool for exploring physiological processes regulated by V-ATPase⁴.

References:

1. Gagliardi, S., et al., (1999) *Curr. Med. Chem.*, 6 : 1197
2. Yamamoto, A., et al., (1998) *Cell Struct. Funct.*, 23 : 33
3. Neutzsky-Wulff, A.V., et al., (2010) *BMC Musculoskelet. Disord.*, 11: 109
4. Yoshimori, T., et al., (2015) *J. Biol. Chem.*, 290 : 8039

For research use only. Not for use in humans.