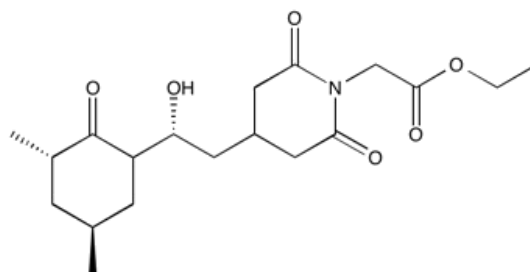


**Catalog # 10-1062**

**Cycloheximide-N-ethylethanoate**

Ethyl 2-(4-((R)-2-((1S, 3S, 5S)-3,5-dimethyl-2-oxocyclohexyl)-2-hydroxyethyl)-2,6-dioxopiperidin-1-yl)acetate

Lot # S105156



FKBP12 inhibitor ( $IC_{50}=4.4 \mu\text{M}$ ) with neuroregenerative properties. Does not inhibit protein synthesis (as does cycloheximide).<sup>1</sup> Mimics a helical peptide in target proteins for binding to the immunophilin Mip homolog, BpML1 (*Burkholderia pseudomallei* Mip-like protein 1).<sup>2</sup>

- 1) Christner *et al.* (1999), *Synthesis and cytotoxic evaluation of cycloheximide derivatives as potential inhibitors of FKBP12 with neuroregenerative properties*; *J. Med. Chem.*, **42** 3615
- 2) Norville *et al.* (2011), *The structure of a Burkholderia pseudomallei immunophilin-inhibitor complex reveals new approaches to antimicrobial development*; *Biochem. J.*, **437** 413

**PHYSICAL DATA**

Molecular Weight:	367.44
Molecular Formula:	$\text{C}_{19}\text{H}_{29}\text{NO}_6$
Purity:	99% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 15 mg/ml) or Ethanol (up to 3 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at $-20^{\circ}\text{C}$ for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at $-20^{\circ}\text{C}$ for up to 1 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**