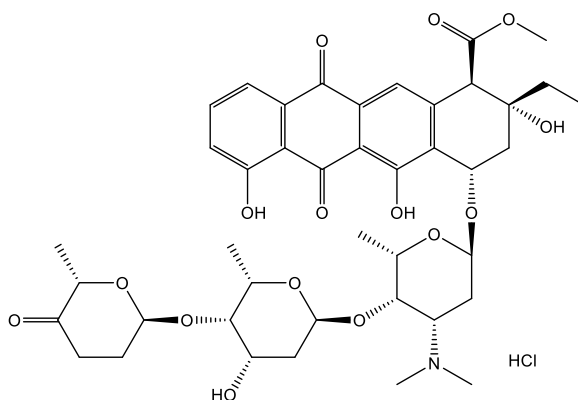


Catalog # 10-1099
Aclacinomycin A HCl
 CAS# 75443-99-1
 Aclarubicin hydrochloride
 Lot # X102457



Specific inhibitor of the 20S proteasome chymotrypsin-like activity¹. Inhibition of Brg1 proteasomal degradation by aclacinomycin A reverses (0.25 μ M in ILU-18 cells) the removal of Brg1 from promoters of inflammatory genes elucidating the regulatory role of the proteasome in controlling the duration of the inflammatory process². Induces the differentiation of K562 cells towards the erythroid pathway³. Induces apoptosis⁴. Cell permeable.

- 1) Figueiroda-Pereira *et al.* (1996), *The Antitumor Drug Aclacinomycin A, Which Inhibits the Degradation of Ubiquitinated Proteins, Shows Selectivity for the Chymotrypsin-like Activity of the Bovine Pituitary 20S Proteasome* ; J. Biol. Chem., **271** 16455
- 2) Cullen *et al* (2009), *Catalytic activity of the proteasome fine-tunes Brg1-mediated chromatin remodeling to regulate the expression of inflammatory genes*; Mol. Immunol., **47** 600
- 3) Morceau *et al.* (2006), *Tumor necrosis factor alpha inhibits aclacinomycin A-induced erythroid differentiation of K562 cells via GATA-1*; Cancer Lett., **240** 203
- 4) Mayer *et al.* (1994), *Culture conditions modulate the effects of alacinomycin A on growth, differentiation and apoptosis of HL60 cells*; Anticancer Res., **14** 2331

PHYSICAL DATA

Molecular Weight:	848.33
Molecular Formula:	C ₄₂ H ₅₃ NO ₁₅ HCl
Purity:	90% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml)
Physical Description:	Orange solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°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.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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