

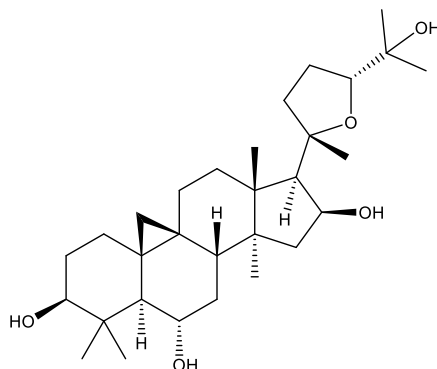
Catalog # 10-3715

Cycloastragenol

CAS# 84605-18-5

20,24R-Epoxy-9,19-cyclolanostane-3 β ,6 α ,25-tetrol

Lot # E107427



Cycloastragenol is a novel naturally occurring terpenoid found in *Astragalus* which was shown to be a telomerase activator. In CD8⁺ T lymphocytes from HIV-infected donors it retarded telomere shortening, increased proliferative potential and enhanced cytokine/chemokine production and antiviral activity.¹ It suppressed lung damage in a idiopathic pulmonary fibrosis mouse model.² It has also been shown to be a novel senolytic agent, inducing senescent cell apoptosis and restoring physical function in mice with irradiation-induced aging.³

- 1) Fauce *et al.* (2008), *Telomerase-Based Pharmacologic Enhancement of Antiviral Function of Human CD8⁺ T Lymphocytes*; J. Immunol. **181** 7400
- 2) Le Saux *et al.* (2013), *A novel telomerase activator suppresses lung damage in a murine model of idiopathic pulmonary fibrosis*; PLoS One **8** e58423
- 3) Zhang *et al.* (2023), *Cycloastragenol: A Novel Senolytic Agent That Induces Senescent Cell Apoptosis and Restores Physical Function in TBI-Aged Mice*; Int. J. Mol. Sci. **24** 6554

PHYSICAL DATA

Molecular Weight:	490.73
Molecular Formula:	C ₃₀ H ₅₀ O ₅
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (60 mg/ml); Ethanol (15 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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