LKT Laboratories, Inc.

Cycloastragenol

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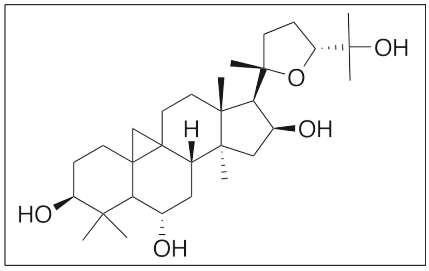
Product Information

Product ID C9608
CAS No. 84605-18-5
Chemical Name (3β,6α,16β,24R)-20,24-Epoxy-9,19-cyclolanostane-3,6,16,25-tetrol
Synonym Cyclogalagenin, Cyclogalegenin, Cyclogalegigenin



Formula $C_{30}H_{50}O_5$
Formula Wt. 490.72
Melting Point 241-248°C
Purity ≥98%
Solubility Sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, first dissolve in DMF and then dilute with the aqueous buffer of choice.
Store Temp Ambient
Ship Temp Ambient

Bulk quanitites available upon request

Product ID	Size
C9608	25 mg
C9608	100 mg
C9608	250 mg

Description Cycloastragenol is a triterpene aglycone found in *Radix Astragali* (astragalus root). Cycloastragenol exhibits anti-fibrotic and anti-parasitic activities. In vitro, cycloastragenol increases phosphorylation of ERK, which may be dependent on Src and MEK signaling. Additionally, this compound activates telomerase ex vivo and in vivo, preventing the development of fibrosis and increasing epithelial life span; it is undergoing examination as a potential treatment for pulmonary fibrosis and other telomerase-associated disorders. Cycloastragenol may also inhibit activity of *Trypanosoma* parasites.

References

Le Saux CJ, Davy P, Brampton C, et al. A novel telomerase activator suppresses lung damage in a murine model of idiopathic pulmonary fibrosis. PLoS One. 2013;8(3):e58423. PMID: 23516479.

Yung LY, Lam WS, Ho MK, et al. Astragaloside IV and cycloastragenol stimulate the phosphorylation of extracellular signal-regulated protein kinase in multiple cell types. Planta Med. 2012 Jan;78(2):115-21. PMID: 22083896.

Caliş I, Koyunoğlu S, Yeşilada A, et al. Antitrypanosomal cycloartane glycosides from Astragalus baibutensis. Chem Biodivers. 2006 Aug;3(8):923-9. PMID: 17193323.