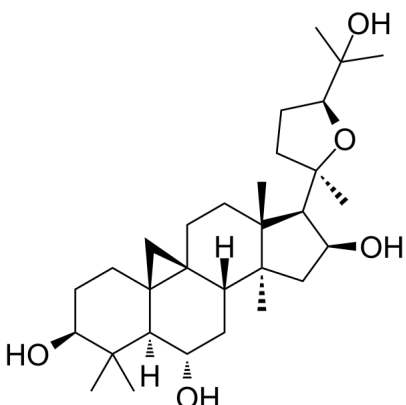


Certificate of Analysis

Catalog Number	BP13689
Product Name	Cycloastragenol

Physical and Chemical Properties

Synonyms	Astramembrangenin, Cyclogalegenol
CAS No.	78574-94-4
Chemical Formula	C ₃₀ H ₅₀ O ₅
Molecular Weight	490.72
Solubility	DMSO: 98 mg/mL (199.71 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	 <p>The chemical structure of Cycloastragenol is a complex polycyclic molecule. It features a steroid-like core with several fused rings. Key features include a hydroxyl group (OH) on the leftmost ring, a double bond in the second ring from the left, and a complex side chain on the rightmost ring that includes an ether linkage and a terminal hydroxyl group. Stereochemistry is indicated with wedges and dashes throughout the structure.</p>

Product Information

Description	Astramembrangenin (Cycloastragenol) is a triterpenoid saponin compound and a hydrolysis product of the main active ingredient in Astragalus membranaceus. Cycloastragenol (CAG) may have a novel therapeutic role in depression
In vitro	Cyclogalegenol has important anti-inflammatory activity by inhibiting lymphocytes activation, proliferation and cytokines expression, this effect may be related to reduction of overall intracellular Ca ²⁺ overload.
In vivo	oral administration of Cyclogalegenol for 7 days attenuated depression-like behavior in experimental mice. Cyclogalegenol stimulates telomerase activity in human neonatal keratinocytes and rat neuronal cells, and induces CREB activation followed by tert and bcl2 expression. Furthermore, Cyclogalegenol may have a novel therapeutic role in depression.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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