Product Information

Asiaticoside
Item No. 11819

CAS Registry No.: 16830-15-2
Formal Name: 2α,3β,23-trihydroxy-O-6-deoxy-α-L-mannopyranosyl-(1→4α)-O-β-D-glucopyranosyl-(1→6)-β-D-glucopyranosyl ester-urs-12-en-28-oic acid
Synonyms: Ba 2742, BRN 0078195, FK1080, Madecassol, NSC 36002, NSC 166062
MF: C₄₈H₇₈O₁₉
FW: 959.1
Purity: ≥95%
Stability: ≥2 years at 4°C
Supplied as: A crystalline solid

Laboratory Procedures

For long term storage, we suggest that asiaticoside be stored as supplied at 4°C. It should be stable for at least two years. Asiaticoside is supplied as a crystalline solid. A stock solution may be made by dissolving the asiaticoside in the solvent of choice. Asiaticoside is soluble in organic solvents such as ethanol, methanol, and pyridine, which should be purged with an inert gas. It is insoluble in water. Asiaticoside is the main saponin constituent of C. asiatica, a plant long used in the Ayurvedic system of medicine to treat a variety of ailments including dermatitis, diabetes, cough, cataract, hypertension, as well as for wound healing and improving memory. In various wound healing models, topical application (0.2-0.4%), injection (1 mg), or ingestion (1 mg/kg) of asiaticoside has been shown to increase hydroxyproline content, improve tensile strength, increase collagen synthesis and remodeling of the collagen matrix, promote epithelialization, stimulate glycosaminoglycan synthesis, and elevate antioxidant levels.¹⁻⁴

References


Related Products

For a list of related products please visit: www.caymanchem.com/catalog/11819

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals herein. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence. Cayman Chemical Company, in its discretion, may agree to replace the material, at its cost to Cayman, of all material that does not meet our specifications. Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications. Cayman will have no liability for any damages caused by misuse or improper application of the material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.