PRODUCT INFORMATION



Neoruscogenin

Item No. 15567

CAS Registry No.:	17676-33-4	
Formal Name:	spirosta-5,25(27)-diene-1β,3β-diol	\
Synonym:	25(27)-Dehydroruscogenin	
MF:	$C_{27}H_{40}O_{4}$	ОН
FW:	428.6	
Purity:	≥95%	
Supplied as:	A crystalline solid	
Storage:	-20°C	HO
Stability:	≥4 years	

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Neoruscogenin is supplied as a crystalline solid. A stock solution may be made by dissolving the neoruscogenin in the solvent of choice. Neoruscogenin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of neoruscogenin in these solvents is approximately 30 mg/ml.

Neoruscogenin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, neoruscogenin should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Neoruscogenin has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Neoruscogenin is a natural sapogenin isolated from Butcher's broom (R. rhizoma), which is traditionally used against chronic venous disorders.¹ It is a bioavailable, potent, and high-affinity agonist of the nuclear receptor RORa (EC₅₀ = 110 nM).² In mice, neoruscogenin up-regulates the expression of several RORainducible genes in the liver, when given at 3 mg/kg/d orally for seven days.²

References

- 1. Barbic, M., Willer, E.A., Rothenhöfer, M., et al. Spirostanol saponins and esculin from Rusci rhizoma reduce the thrombin-induced hyperpermeability of endothelial cells. Phytochem. 90, 106-113 (2013).
- 2. Helleboid, S., Haug, C., Lamottke, K., et al. The identification of naturally occurring neoruscogenin as a bioavailable, potent, and high-affinity agonist of the nuclear receptor RORa (NR1F1). J. Biomol. Screen. 19(3), 399-406 (2014).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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