

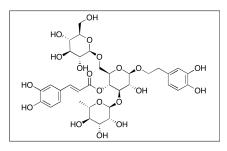
Product ID E0929 CAS No. 82854-37-3 **Chemical Name**

Synonym

Formula C₃₅H₄₆O₂₀ Formula Wt. 786.73 **Melting Point** Purity ≥98% Solubility Soluble in water and ethanol.

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Product Information



Bulk quanitites available upon request

Product ID	Size
E0929	5 mg
E0929	10 mg
E0929	25 mg

Store Temp Ambient

Ship Temp Ambient

Description Echinacoside is a phenylethanoid glycoside found in Echinacea, among other sources; it exhibits neuroprotective and vasodilatory activities. In vivo, echinacoside inhibits cytochrome c release and caspase-3 activation through modulation of ERK signaling, resulting in neuroprotection in a model of middle cerebral artery occlusion. Echinacoside also displays neuroprotective benefit in a MTPT-induced mouse model of Parkinson's Disease, decreasing the Bax/Bcl-2 ratio and inhibiting suppression of dopamine and dopamine transporter (DAT) levels. This compound increases cGMP in rat aortic rings, inducing vasodilation. Additionally, echinacoside improves bone mineral density and microarchitecture, decreasing RANKL expression and increasing esteoprotegerin levels in animal models of osteopenia.

References Yang X, Li F, Yang Y, et al. Efficacy and safety of echinacoside in a rat osteopenia model. Evid Based Complement Alternat Med. 2013;2013:926928. PMID: 23573159.

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Wei LL, Chen H, Jiang Y, et al. Effects of echinacoside on histio-central levels of active mass in middle cerebral artery occlusion rats. Biomed Environ Sci. 2012 Apr;25(2):238-44.PMID: 22998833.

Zhao O, Gao J, Li W, et al. Neurotrophic and neurorescue effects of Echinacoside in the subacute MPTP mouse model of Parkinson's disease. Brain Res. 2010 Jul 30;1346:224-36. PMID: 20478277.

He WJ, Fang TH, Ma X, et al. Echinacoside elicits endothelium-dependent relaxation in rat aortic rings via an NO-cGMP pathway. Planta Med. 2009 Oct;75(13):1400-4. PMID: 19468974.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.