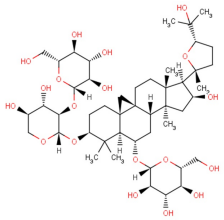
Data Sheet (Cat.No.T13559)

TargetMol
A DRUG SCREENING EXPERT

Astragaloside VI

Chemical Properties



CAS No.:	84687-45-6
Formula:	C47H78O19
Molecular Weight:	947.11
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Astragaloside VI could improve wound healing by activating the EGFR/ERK signaling pathway.
Targets(IC_{50})	EGFR: None
In vitro	Pretreatment with Astragaloside VI (1 μM) increases EGFR activation in HaCaT cells. Astragaloside VI, a major intestinal metabolite of astragalosides, exerts the strongest EGFR activation. In HaCaT cells, the positive control, EGF expectedly results in a 1.5-fold increase in cell proliferation, compared to the control. Astragaloside VI at the indicated concentrations also significantly promotes cell proliferation in both HaCaT and HDF cells [1]. Astragaloside VI promotes neural stem cell proliferation and enhances neurological function recovery in transient cerebral ischemic injury via activating EGFR/MAPK signaling cascades [2].
In vivo	In the simple non-infected wound model, wound healing in mice is accelerated by Astragaloside VI, wherein the time required for wound closure is shortened by approximately 2-4 days, compared to that in the control group. Topical treatment with Astragaloside VI reduces the volume of pus produced, compared to the control group. Astragaloside VI treated wounds show an accelerated rate of healing, compared to the control and vaseline groups. By day 22, the Astragaloside VI -treated wounds fully close, whereas the blank and vaseline-treated wounds do not fully close until day 26. Astragaloside VI increases blood vessel formation in both the non-infected and infected wound models [1]. Astragaloside VI could effectively activate EGFR/MAPK signaling cascades, promote NSCs proliferation and neurogenesis in transient cerebral ischemic brains, and improve the repair of neurological functions in post-ischemic stroke rats [2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.056 mL	5.279 mL	10.558 mL
5 mM	0.211 mL	1.056 mL	2.112 mL
10 mM	0.106 mL	0.528 mL	1.056 mL
50 mM	0.021 mL	0.106 mL	0.211 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Lee SY, et al. Astragaloside VI and cycloastragenol-6-O-beta-D-glucoside promote wound healing in vitro and in vivo. Phytomedicine. 2018 Jan 1;38:183-191.

2. Chen X, et al. Astragaloside VI Promotes Neural Stem Cell Proliferation and Enhances Neurological Function Recovery in Transient Cerebral Ischemic Injury via Activating EGFR/MAPK Signaling Cascades. Mol Neurobiol. 2018 Aug 7.

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