

Grape Seed Extract

Chemical Properties

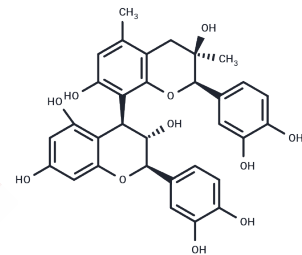
CAS No. : 84929-27-1

Formula: C₃₂H₃₀O₁₁

Molecular Weight: 590.581

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Grape Seed Extract (Grape Seed P.E.) is exudate from seeds of the grape plant <i>Vitis vinifera</i> , composed of oils and secondary plant metabolites (BIOFLAVONOIDS and polyphenols) credited with important medicinal properties.
Targets(IC50)	Apoptosis

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 66.7 mg/mL (112.94 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (1.69 mM), Sonication is recommended. 10% DMSO+90% Saline: 6.67 mg/mL (11.29 mM), Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6933 mL	8.4663 mL	16.9325 mL
5 mM	0.3387 mL	1.6933 mL	3.3865 mL
10 mM	0.1693 mL	0.8466 mL	1.6933 mL
50 mM	0.0339 mL	0.1693 mL	0.3387 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Liu, Q., Jiang, J., Liu, Y., Ge, L., Guan, Y., & Zhao, W. et al. (2017). Grape seed extract ameliorates bleomycin-induced mouse pulmonary fibrosis. *Toxicology Letters*, 273, 1-9. doi: 10.1016/j.toxlet.2017.03.012
- Martincigh, B., & Ollengo, M. (2016). The Photostabilizing Effect of Grape Seed Extract on Three Common Sunscreen Absorbers. *Photochemistry And Photobiology*, 92(6), 870-884. doi: 10.1111/php.12652
- Weseler, A., & Bast, A. (2017). Masquelier's grape seed extract: from basic flavonoid research to a well-characterized food supplement with health benefits. *Nutrition Journal*, 16(1). doi: 10.1186/s12937-2016-0218-1

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481