Data Sheet (Cat.No.TN8854)

TargetMol

25(S)-Ophiopogonin D

Chemical Properties

CAS No. :

Formula: C44H70O16

Molecular Weight: 855.02

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	25(S)-Ophiopogonin D, a steroidal glycoside, abrogates STAT3 signaling cascade and exhibits anti-cancer activity by causing GSH/GSSG imbalance in lung carcinoma. 25(S)-Ophiopogonin D is therefore used in cancer signaling research systems to investigate STAT3 pathway regulation, redox imbalance mechanisms, and glutathione homeostasis disruption in lung carcinoma cellular models.
Targets(IC50)	STAT
In vivo	Meth25(S)-Ophiopogonin D:LPS-induced acute lung injury (ALI) mice were used to assess inflammation and signaling pathway changes after 25(S)-Ophiopogonin D treatment. Result:25(S)-Ophiopogonin D reduced TNF-α expression, decreased MAPK and NF-κB p65 phosphorylation, increased STAT3 phosphorylation and A20 expression, and promoted ASK1 degradation.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1696 mL	5.8478 mL	11.6956 mL
5 mM	0.2339 mL	1.1696 mL	2.3391 mL
10 mM	0.117 mL	0.5848 mL	1.1696 mL
50 mM	0.0234 mL	0.117 mL	0.2339 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

Shen X, Ruan Y, Zhao Y, Ye Q, Huang W, He L, et al. Ophiopogonin D alleviates acute lung injury by regulating inflammation via the STAT3/A20/ASK1 axis. Phytomedicine. 2024 Jul 25;130:155482. doi:10.1016/j.phymed.2024.155482

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