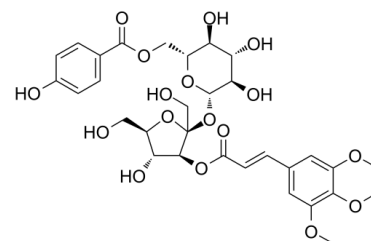


Data Sheet

Product Name:	Tenuifoliside A
Cat. No.:	CS-0032504
CAS No.:	139726-35-5
Molecular Formula:	C ₃₁ H ₃₈ O ₁₇
Molecular Weight:	682.62
Target:	ERK
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

Tenuifoliside A is isolated from *Polygala tenuifolia*, has anti-apoptotic and antidepressant-like effects. Tenuifoliside A exhibits its neurotrophic effects and promotes cell proliferation through the **ERK/CREB/BDNF** signal pathway in C6 cells^[1]. **In Vitro:** Tenuifoliside A (6-30 μM; 24 hours) increases the C6 cells viability significantly by concentration dependent manner. But the viability of the 60 μM treatment group is suppressed. Only 60 μM TFSA induced the release of LDH, shows a toxic effect^[1]. Tenuifoliside A (10 μM; 2, 5, 7, 10, 15, 30, 45 and 60 mins) elicits a rapid (starting at 2 min) and marked induction of ERK1/2 phosphorylation peaking at 5 min. And, the enhanced levels of phospho-ERK induced by TFSA are partially blocked by ERK inhibitor U0126^[1].

References:

[1]. Dong XZ, et al. Effect of Tenuifoliside A isolated from *Polygala tenuifolia* on the ERK and PI3K pathways in C6 glioma cells. *Phytomedicine*. 2014 Sep 15;21(10):1178-88.

CAIndexNames:

α-D-Glucopyranoside, 3-O-[(2E)-1-oxo-3-(3,4,5-trimethoxyphenyl)-2-propen-1-yl]-β-D-fructofuranosyl, 6-(4-hydroxybenzoate)

SMILES:

OC[C@@]1([C@H]([C@H](O)[C@@H](CO)O1)OC/C=C/C2=CC(OC)=C(OC)C(OC)=C2=O)O[C@@H]3O[C@@H]([C@@H](O)[C@H](O)[C@H]3O)COC(C4=CC=C(O)C=C4)=O

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA