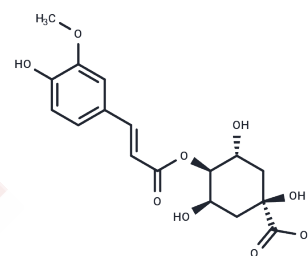


## 4-O-Feruloylquinic acid

## Chemical Properties

CAS No. :	2613-86-7
Formula:	C <sub>17</sub> H <sub>20</sub> O <sub>9</sub>
Molecular Weight:	368.34
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	4-O-Feruloylquinic acid can be useful for the prevention of cardiovascular and other chronic diseases.
Targets(IC50)	Others
In vitro	Five of the collected compounds were over 95% pure while the other two compounds were over 90% pure. Their structures were elucidated as 3-O-feruloylquinic acid (1), 4-O-Feruloylquinic acid (2), methyl 3-O-feruloylquinic acid (3), methyl 5-O-caffeyolquinic acid (4), methyl 4-O-feruloylquinic acid (5), ethyl 3-O-feruloylquinic acid (6) and the new compound ethyl 4-O-feruloylquinic acid (7) by UV, NMR and ESI-MS. All compounds were obtained from <i>Stemona</i> species for the first time, however compounds 6 and 7 are believed to be artefacts from the ethanol extraction. The anti-AIV (H5N1) activities were evaluated by Neutral Red uptake assay.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7149 mL	13.5744 mL	27.1488 mL
5 mM	0.543 mL	2.7149 mL	5.4298 mL
10 mM	0.2715 mL	1.3574 mL	2.7149 mL
50 mM	0.0543 mL	0.2715 mL	0.543 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

Isolation of chlorogenic acids and their derivatives from *Stemona japonica* by preparative HPLC and evaluation of their anti-AIV (H5N1) activity in vitro. *Phytochem Anal.* 2007 May-Jun;18(3):213-8.

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