

## CERTIFICATE OF ANALYSIS

*For Laboratory Use Only*

**Product name**

**Other names**

Chlorogenic acid  
 (1S,3R,4R,5R)-3-[(E)-3-(3,4-dihydroxyphenyl)prop-2-enyl]oxy-1,4,5-trihydroxycyclohexane-1-carboxylic acid; 3-O-Caffeoylquinic Acid; 3-(3,4-Dihydroxycinnamoyl) Quinic Acid; 3-Caffeoylquinic Acid; Chlorogenate; Heriguard; Hlorogenic Acid; Asam klorogenat (INA)

**CAS**

327-97-9

**Catalog No.**

PHE-19-10

**Formula**

C<sub>16</sub>H<sub>18</sub>O<sub>9</sub>

**Molecular mass**

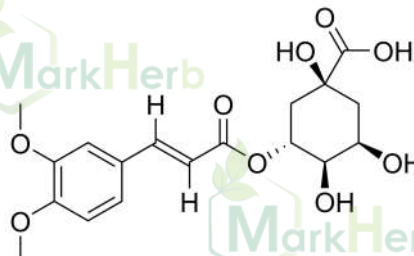
354.31 g/mol

**Date of sample**

02/09/2021

**Date of report**

02/09/2021



**Structure**

### ANALYTICAL RESULTS

Test	Method	Specification	Result
Appearance	NA	White, powder	White, powder
Purity	HPLC-UV	> 95%	95%
UV spectrum	UV Spectroscopy	NA	NA
Mass spectrum	LC-MS/MS	NA	NA
NMR	<sup>1</sup> H-NMR, <sup>13</sup> C-NMR	NA	NA

NA, not available

### STORAGE CONDITIONS

**Storage** Keep container tightly closed in a dry and well-ventilated place

**Transport** Room temperature

Digitally signed by  
 Andi Rifki Rosandy, Ph.D  
 Date: 02.09.2021  
 Bandung - Indonesia