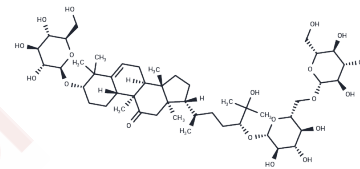


## 11-Oxomogroside III

## Chemical Properties

CAS No. : 952481-53-7  
 Formula: C<sub>48</sub>H<sub>80</sub>O<sub>19</sub>  
 Molecular Weight: 961.14  
 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	11-Oxomogroside III is a natural product from <i>Siraitia grosvenorii</i> Swingle.
Targets(IC50)	Others
In vitro	A high performance liquid chromatographic method was developed for simultaneous determining the contents of mogroside V, mogroside IV A, mogroside III, 11-Oxomogroside III, mogroside II E and 11-oxomogroside II E in <i>Siraitia grosvenorii</i> fruits. The chromatographic analysis was carried out on a ZORBAX SB-C18 column (150 mm x 4.6 mm, 5 microm). The mobile phase was water (A) and acetonitrile (B) with gradient elution (0-3 min, 20% B - 30% B; 3-8 min, 30% B - 35% B; 8-9 min, 35% B). The flow rate was maintained at 0.8 mL/min. The detection wavelength was set at 203 nm and the column temperature was controlled at 30 degrees C. The sample injection volume was 10 microL. The calibration curves were linear over the ranges of 0.04 - 1.0 mg/mL, 0.011 - 0.68 mg/mL, 0.010 - 0.80 mg/mL, 0.0097 - 0.58 mg/mL, 0.025 - 1.0 mg/mL and 0.013 - 0.76 mg/mL ( $r > 0.999$ ) for the above cucurbitane triterpene glycosides, respectively. The average recoveries were 99.65% for mogroside V, 101.6% for mogroside IV A, 97.05% for mogroside m, 103.1% for 11-oxomogroside I, 99.25% for mogroside II E, and 103.0% for 11-oxomogroside II E, with the relative standard deviations of 0.83%, 3.1%, 1.9%, 3.3%, 0.59% and 2.0%, respectively.

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.0404 mL	5.2022 mL	10.4043 mL
5 mM	0.2081 mL	1.0404 mL	2.0809 mL
10 mM	0.104 mL	0.5202 mL	1.0404 mL
50 mM	0.0208 mL	0.104 mL	0.2081 mL

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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

Simultaneous determination of six cucurbitane triterpene glycosides in *Siraitia grosvenorii* fruits using high performance liquid chromatography. *Se Pu*. 2008 Jul;26(4):504-8.

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