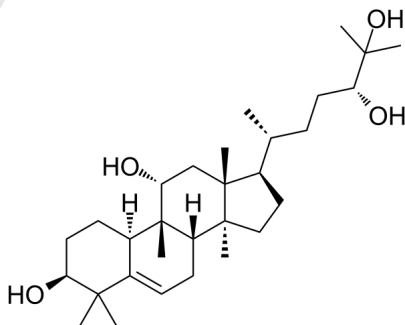


Certificate of Analysis

| | |
|----------------|---------|
| Catalog Number | BP15254 |
| Product Name | Mogrol |

Physical and Chemical Properties

| | |
|--|--|
| CAS No. | 88930-15-8 |
| Chemical Formula | C ₃₀ H ₅₂ O ₄ |
| Molecular Weight | 476.742 |
| Solubility | DMSO: 110 mg/mL (230.74 mM), Need ultrasonic |
| Storage | Powder: -20°C for 2 years In solvent: -80°C for 1 year |
| Chemical Structure OR Tested Image |  |

Product Information

| | |
|-------------|--|
| Description | Mogrol is a biometabolite of mogrosides. Mogrol acts via inhibition of the ERK1/2 and STAT3 pathways, or reducing CREB activation and activating AMPK signaling. |
|-------------|--|

| | |
|----------|--|
| In vitro | Mogrol, but not mogrosides, suppressed triglyceride accumulation by affecting early (days 0-2) and late (days 4-8), but not middle (days 2-4), differentiation stages. At the late stage, mogrol increased AMP-activated protein kinase (AMPK) phosphorylation and reduced glycerol-3-phosphate dehydrogenase activity. At the early stage, mogrol promoted AMPK phosphorylation, inhibited the induction of CCAAT/enhancer-binding protein β (C/EBP β ; a master regulator of adipogenesis), and reduced 3T3-L1 cell contents (e.g., clonal expansion). In addition, mogrol, but not the AMPK activator AICAR, suppressed the phosphorylation and activity of the cAMP response element-binding protein (CREB), which regulates C/EBP β expression. Mogrol suppressed adipogenesis by reducing CREB activation in the initial stage of cell differentiation and by activating AMPK signaling in both the early and late stages of this process. |
|----------|--|

Analytical Data

| | |
|---------------------------------|--|
| HPLC | Shows Min >99% purity |
| H-NMR | Consistent with structure |
| Stability and Solubility Advice | Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details. |

Purdue Bioscience Inc.

750 50th St, Brooklyn, NY 11220, USA

<https://www.purduebio.com>

1-877.618.7311

info@purduebio.com

v2 Revision on 12/28/2022