

Raffinose Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Raffinose

Catalog No.: CFN90425

Cas No.: 17629-30-0

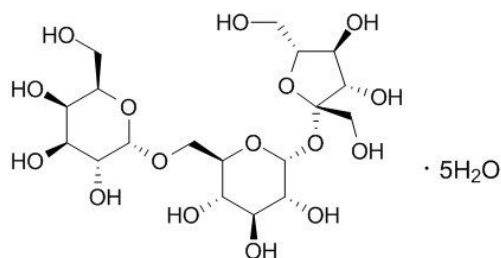
Purity: >=98%

M.F: C₁₈H₃₂O₁₆(5H₂O)

M.W: 594.51

Physical Description: Powder

Synonyms: beta-D-fructofuranosyl-6-O-alpha-D-galactopyranosyl-alpha-D-glucopyranoside; D(+)-Raffinose pentahydrate.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Agricultural research
6. Others.

[Source]

The seeds of *Glycine max*.

[Biological Activity or Inhibitors]

Raffinose and galactinol can effectively protect salicylate from attack by hydroxyl radicals in vitro, suggest the possibility that galactinol and raffinose scavenge hydroxyl radicals as a novel function to protect plant cells from oxidative damage caused by methylviologen treatment, salinity, or chilling.^[1]

Raffinose family oligosaccharides can attenuate CCl₄-induced oxidative stress and hepatopathy in mice.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

HPLC-ELSD:

Mobile phase: Acetonitrile -H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

Drift tube temperature: 90 °C;

Flow rate of gas : 2.0 L/min.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Nishizawa A, Yabuta Y, Shigeoka S. *Plant Physiol.*, 2008, 147(3):1251-63.

[2] Zhang R, Zhao Y, Sun Y, *et al. J. Agric. Food Chem.*, 2013, 61(32):7786-93.

[3] Man-Sub Shin, Jae-Woo Park, Mi-Ran Cho, *et al. Korean J. Food Sci. Technol.*, 2006, 38(6):725-9.

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