



## Notoginsenoside R2 Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Notoginsenoside R2

**Catalog No.:** CFN92364

**Cas No.:** 80418-25-3

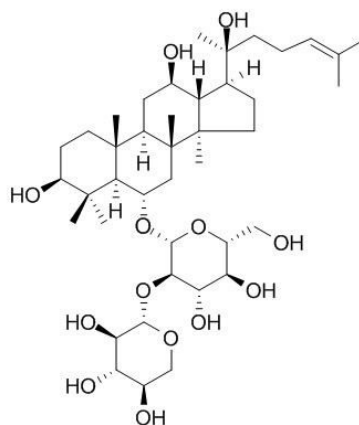
**Purity:** > 98%

**M.F:** C<sub>41</sub>H<sub>70</sub>O<sub>13</sub>

**M.W:** 771.0

**Physical Description:** White powder

**Synonyms:** (3 $\beta$ ,6 $\alpha$ ,12 $\beta$ )-3,12,20-trihydroxydammar-24-en-6-yl-2-O- $\beta$ -D-xylopyranosyl- $\beta$ -D-glucopyranoside.



### [ Intended Use ]

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

### [ Source ]

The roots of *Panax notoginseng*.

## **[ Biological Activity or Inhibitors ]**

Notoginsenoside R2 (NGR2), which is a newly isolated notoginsenoside from *Panax notoginseng*, shows neuroprotective effects against 6-OHDA-induced oxidative stress and apoptosis via MEK1/2-ERK1/2 pathways.<sup>[1]</sup>

Notoginsenoside R2 and Pseudoginsenoside-F11 have attracted remarkable interest as promising antiparkinson agents, they exert their neuroprotective activity through different mechanisms including, among others, inhibition of oxidative stress and neuroinflammation, decrease in toxins-induced apoptosis and nigral iron levels, and regulation of N-methyl-D-aspartate receptor channel activity.<sup>[2]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, Hot water, etc.

## **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: 5 mM Ammonium acetate aqueous- Water- Acetonitrile, gradient elution ;

Flow rate: 1.5 ml/min;

Column temperature: 30 °C;

The wave length of determination: 203 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Meng X B, Sun G B, Wang M, *et al. Evid.-Based. Compl. Al. M.* , 2013, 2013(6):1-49.

[2] González-Burgos E, Fernandez-Moriano C, Gómez-Serranillos M P. *J. Neuroimmune. Pharm.* , 2015, 10(1):14-29.

[3] Qian Z M, Wan J B, Zhang Q W, *et al. J. Pharmacuet .Biomed.*, 2008, 48(5):1361-7.

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