

## Escin IA Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** Escin IA

**Catalog No.:** CFN93368

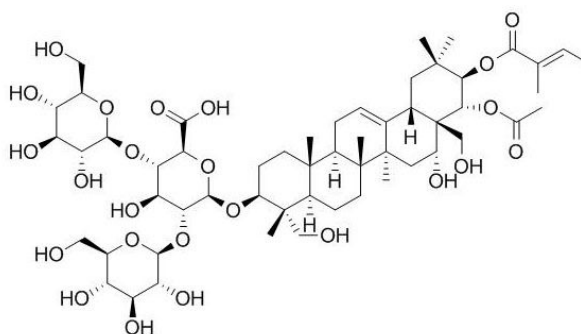
**Cas No.:** 123748-68-5

**Purity:** >=98%

**M.F:** C<sub>55</sub>H<sub>86</sub>O<sub>24</sub>

**M.W:** 1131.3

**Physical Description:** Powder



**Synonyms:** (3 $\beta$ ,16 $\alpha$ ,21 $\beta$ ,22 $\alpha$ )-22-(Acetyloxy)-16,24,28-trihydroxy-21-[[[(2E)-2-methylbut-2-enoyl]oxy}olean-12-en-3-yl]- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 2)-[[ $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 4)]- $\beta$ -D-glucopyranosiduronic acid.

### [ Intended Use ]

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

### [ Source ]

The herbs of *Aesculus hippocastanum* L.

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

Escin IA is the main active ingredient of the saponin fraction of *Aesculus chinensis* Bunge fruits (SFAC) for the anti-TNBC metastasis activity, and its action mechanisms involved inhibition of EMT process by down-regulating LOXL2 expression.<sup>[1]</sup>

Escin IA is a prodrug and its structure can be converted to desacylescins I by human intestinal bacteria and *Lactobacillus brevis*., desacylescins I as a biotransformation product shows potentially inhibitory effects on mouse tumor, and a potential candidate for anti tumor agents.<sup>[2]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

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

Mobile phase: Acetonitrile - 0.10% Phosphoric acid solution ,gradient elution ;

Flow rate: 1.0 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] Wang Y, Xu X, Zhao P, *et al. Oncotarget*, 2016, 7(17):23684-99.

[2] Yang X W, Zhao J, Cui J R, *et al. Beijing Da Xue Xue Bao*. 2004,36(1):31-5.

[3] Chen J, Li W, Yang B, *et al. Anal. Chim. Acta*. 2007,596(2):273-80.

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