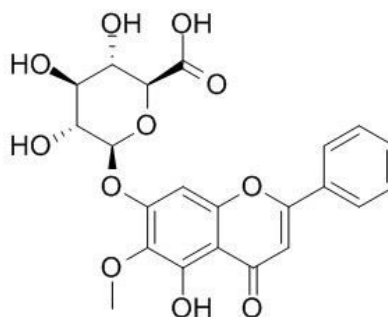


## Oroxylin A 7-O-beta-D-glucuronide Datasheet

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

### [ Product Information ]

**Name:** Oroxylin A 7-O-beta-D-glucuronide**Catalog No.:** CFN90191**Cas No.:** 36948-76-2**Purity:** >=98%**M.F:** C<sub>22</sub>H<sub>20</sub>O<sub>11</sub>**M.W:** 460.39**Physical Description:** Yellow powder

**Synonyms:** 5-Hydroxy-6-methoxy-7-(β-D-glucurono pyranosyloxy)flavone; Oroxyloside; 5-Hydroxy-6-methoxy-2-phenyl-4-oxo-4H-1-benzopyran-7-yl-β-D-glucopyranosiduronic acid; Oroxylin A 7-glucuronide; Oroxylin A-7-O-glucuronide.

### [ Intended Use ]

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

### [ Source ]

The roots of *Scutellaria regeliana* Nakai.

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

Oroxylin A-7-O-glucuronide and wogonoside should also be served as the chemical markers together with baicalin for the quality control of herbs and proprietary traditional Chinese medicine (PTCM) products of radix Scutellariae.<sup>[1]</sup>

Oroxylin A 7-O-glucuronide, Oroxin A, and Oroxin B can bind to the “stem” region of  $\alpha$ -hemolysin ( $\alpha$ -HL), when inhibiting the hemolytic activity of  $\alpha$ -HL.<sup>[2]</sup>

Oroxylin A 7-O-glucuronide and 4',5,7-trihydroxy-6-methoxyflavone at a concentration of 100 microM inhibit 34 and 43% of total prolyl oligopeptidase (POP) activity, respectively.<sup>[3]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

## **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: 0.2% Formic acid in water- Acetonitrile, gradient elution;

Flow rate: 0.4 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 275 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Li C, Zhou L, Lin G, *et al. J. Pharm. Biomed. Anal.*, 2009 Oct 15; 50(3): 298-306.

[2] Qiu J, Wang D, Zhang Y, *et al. Plos One*, 2013, 8(11): e80197.

[3] Marques M R, Stüker C, Kichik N, *et al. Fitoterapia*, 2010 Sep; 81(6): 552-6.

[4] Chen H, Li Z, Li Y, *et al. Biomed. Chromatogr.*, 2015 Dec; 29(12): 1819-25.

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