

# Trigonelline hydrochloride Datasheet

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

## [ Product Information ]

**Name:** Trigonelline hydrochloride

**Catalog No.:** CFN99951

**Cas No.:** 6138-41-6

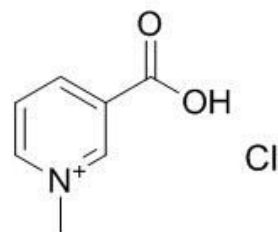
**Purity:** >= 98%

**M.F:** C<sub>7</sub>H<sub>8</sub>ClNO<sub>2</sub>

**M.W:** 173.60

**Physical Description:** Powder

**Synonyms:** 3-Carboxy-1-methylpyridinium betaine hydrochloride; Gynesis; Coffearin; N-Methylnicotinic betaine.



## [ Intended Use ]

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

## [ Source ]

The herbs of *Cannabis sativa*.

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

Trigonelline hydrochloride has influence on aggregation of amyloid- $\beta$  peptide (A $\beta$ 40), it may be a potential anti-neurodegenerative drug.<sup>[1]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, Hot water, DMSO, etc.

## **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase: 0.01M Phosphate buffer (pH 4.0) - Methanol, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 268 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Kraziński B E, Radecki J, Radecka H. *Sensors*, 2011, 11(4):4030-42.

[2] Casal S, Oliveira M B, Ferreira M A. *J. Liq .Chromatogr. R. T.*, 1998, 21(20):3187-95.

## **[ Contact ]**

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