STATUS DECISION OF CONTROLLED
AND NON-CONTROLLED SUBSTANCE(S)

Substance: 6-(3-chlorophenyl)-6-hydroxy-5-methyl-3-thioxomorpholine-2-carboxylic acid

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

- Controlled ☐
- Not Controlled X

under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

- The substance is not similar to any substance listed on the Schedules to the CDSA.

Prepared by: ___________________________ Date: ___________

Zack Li

Verified by: ___________________________ Date: ___________

Mark Kozlowski

Approved by: ___________________________ Date: ___________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: "third party information removed as per agreement with applicant"
Drug Status Report

**Drug:** 6-(3-chlorophenyl)-6-hydroxy-5-methyl-3-thioxomorpholine-2-carboxylic acid

**Drug Name Status:** 6-(3-chlorophenyl)-6-hydroxy-5-methyl-3-thioxomorpholine-2-carboxylic acid is the common name.

**Chemical Name:** 6-(3-chlorophenyl)-6-hydroxy-5-methyl-3-thioxomorpholine-2-carboxylic acid

**Other Names:** 6-(3-Chlorophenyl)-6-hydroxy-5-methyl-3-thiomorpholine Carboxylic Acid; Bupropion Impurity

**Chemical structure:**

![Chemical Structure](attachment:image.png)

**Molecular Formula:** $\text{C}_{12}\text{H}_{12}\text{ClNO}_{4}\text{S}$  
**CAS-RN:** N/A

**Pharmacological class / Application:** Pharmaceutical-related substance

**International status:**

US: 6-(3-chlorophenyl)-6-hydroxy-5-methyl-3-thioxomorpholine-2-carboxylic acid is not listed specifically in the Schedules to the US *Controlled Substances Act* and is not mentioned anywhere on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control, the Green List - List of Psychotropic Substances under International Control, nor the Red List - List of Precursors and Chemicals Frequently Used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances under International Control.

Canadian Status: 6-(3-chlorophenyl)-6-hydroxy-5-methyl-3-thioxomorpholine-2-carboxylic acid is not listed in the schedules to the CDSA. The substance is reported to be an impurity of bupropion, an anti-depressant currently listed under Schedule F to the *Food and Drug Regulations*. 6-(3-chlorophenyl)-6-hydroxy-5-methyl-3-thioxomorpholine-2-carboxylic acid is not structurally similar to any of the substances listed in the CDSA.

**Recommendation:** 6-(3-chlorophenyl)-6-hydroxy-5-methyl-3-thioxomorpholine-2-carboxylic acid is not included under the schedules to the CDSA and is not a controlled substance.

**Date:** June 7th, 2012.