

## Drug Status Report

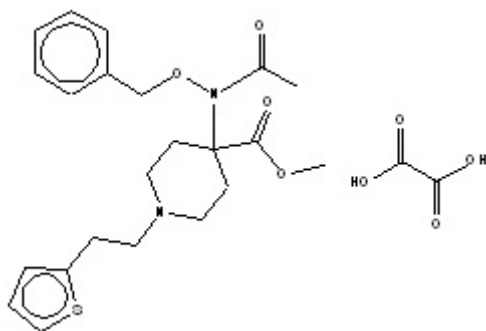
**Drug:** Thiafentanil

**Drug Name Status:** Thiafentanil is the common name.

**Chemical Name:** 1-(2-(2-thienyl)ethyl)-4-methoxycarbonyl-4-(N-phenylmethoxyacetamido)piperdinium oxalate

**Other Names:** A-4080; Thianil

**Chemical structure:**



**Molecular Formula:** C<sub>22</sub>H<sub>28</sub>N<sub>2</sub>O<sub>4</sub>S

**Pharmacological class / Application:** opioid agonist

**International status:**

**US:** The substance is not listed on the schedules to the CSA and is not mentioned on the DEA website.

**United Nations:** The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control. The drug is not listed on the Green List - List of Psychotropic Substances under International Control.

**Canadian Status:** Thiafentanil is an opioid agonist and is used almost exclusively in veterinary medicine and wildlife work for the immobilization of wildlife and large animals<sup>1</sup>. The substance contains the root structure common to the fentanyls and is therefore considered to be included under item 16 of Schedule I to the CDSA under the heading "Fentanyls, their salts, derivatives, and analogues and salts of derivatives and analogues, including:".

**Recommendation:** Thiafentanil is included under item 16 of Schedule I to the CDSA and is a controlled substance.

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<sup>1</sup>Wolfe, LL. *et al.* (2004) Immobilization of mule deer with thiafentanil (A-3080) or thiafentanil plus xylazine, *J. Wildlife Dis.* **40**: 282-287.

April 28<sup>th</sup> 2010