

## Synthesis of $\alpha$ -[ $\beta$ -( $\beta$ -amino- $\gamma,\delta,\epsilon$ -thiadiazol- $\gamma$ -yl)- $\gamma$ -imidazolylthio] acetic acids

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### Abstract

(Chemical Equation Presented) The paper describes synthesis and antituberculosis activity of  $\alpha$ -[ $\beta$ -( $\beta$ -amino- $\gamma,\delta,\epsilon$ -thiadiazol- $\gamma$ -yl)-imidazol- $\gamma$ -ylthio]acetic acids (a,b). The compounds were tested against *Mycobacterium tuberculosis* strain H<sup>3</sup>RV in comparison to rifampicin. Compounds exhibited low activity (MIC  $\geq 6,20$   $\mu$ g/ml, % inhibition  $\leq 24$ ).

### Reaxys Database Information

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### Indexed Keywords

**EMTREE drug terms:**  $\gamma$  ( $\beta$  formyl  $\gamma$  benzyl  $\gamma$  imidazolylthio)acetic acid;  $\gamma$  ( $\beta$  formyl  $\gamma$  methyl  $\gamma$  imidazolylthio)acetic acid;  $\gamma$  ( $\beta$  hydroxymethyl  $\gamma$  benzyl  $\gamma$  imidazolylthio)acetic acid;  $\gamma$  ( $\beta$  hydroxymethyl  $\gamma$  methyl  $\gamma$  imidazolylthio)acetic acid; acetic acid derivative; alpha[ $\beta$  ( $\beta$  amino  $\gamma,\delta,\epsilon$  thiadiazol  $\gamma$  yl)  $\gamma$  benzyl  $\gamma$  imidazolylthio]acetic acid; alpha[ $\beta$  ( $\beta$  amino  $\gamma,\delta,\epsilon$  thiadiazol  $\gamma$  yl)  $\gamma$  methyl  $\gamma$  imidazolylthio]acetic acid; rifampicin; tuberculostatic agent; unclassified drug

**EMTREE medical terms:** antituberculosis activity; article; bacterial strain; controlled study; drug activity; drug structure; drug synthesis; minimum inhibitory concentration; *Mycobacterium tuberculosis*; nonhuman

**Chemicals and CAS Registry Numbers:** rifampicin, 13292-46-1

**ISSN:** 0022102X **CODEN:** JHTCA **Source Type:** Journal **Original language:** English

**DOI:** 10.1002/jhet.5070450537 **Document Type:** Article