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### Synthesis and antimycobacterial activity of 2-hydroxyacetamides

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#### Abstract:

On the basis of the structural similarity of 2-hydroxyacetamides (glycolamides) with N-glycolylmuramic acid residues of the cell wall of Mycobacterium tuberculosis several of these compounds were prepared mainly by the reaction of 5-oxo-2,2-dimethyl-1,3-dioxolane 1 (glycolic acid acetonide) with corresponding amines and their antimycobacterial activities were determined by Alamar blue Assay. Of the synthesized compounds disubstituted amides bearing hydrophilic moieties showed moderate activity.

#### Keywords:

"2-Hydroxyacetamides . Glycolic acid acetonide . Alamar blue Assay . Hydrophilicity"

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