Maleic hydrazide

Cat. No.: HY-59354
CAS No.: 123-33-1
Molecular Formula: C₄H₄N₂O₂
Molecular Weight: 112.09
Target: DNA/RNA Synthesis
Pathway: Cell Cycle/DNA Damage
Storage: Please store the product under the recommended conditions in the COA.

**BIOLOGICAL ACTIVITY**

<table>
<thead>
<tr>
<th>Description</th>
<th>Maleic hydrazide is extensively used as a systemic plant growth regulator and as a herbicide. Maleic hydrazide acts as an inhibitor of the synthesis of nucleic acids and proteins.¹²</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Vitro</td>
<td>Maleic hydrazide is used in agriculture-in despite its known effect as a mutagenic and clastogenic agent. Maleic hydrazide had lower IC₅₀ values for all cell lines compared to Ethephon. Maleic hydrazide also showed least cytotoxicity on Vero cells, followed by Hep2 and HepG2 cells.³</td>
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<tr>
<td>In Vivo</td>
<td>Maleic hydrazide has a low acute toxicity by oral, dermal, and inhalation routes of exposure.³</td>
</tr>
</tbody>
</table>

**REFERENCES**


Caution: Product has not been fully validated for medical applications. For research use only.