

# Chem-Impex International, Inc.

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## Product Specifications

<b>Catalogue Number</b>	42197
<b>Product</b>	<b>5,6-Dichlorobenzimidazole 1-<math>\beta</math>-D-</b> 5,6-Dichlorobenzimidazole riboside 5,6-Dichloro-1-( $\beta$ -D-ribofuranosyl)benzimidazole
<b>CAS Number</b>	53-85-0
<b>Molecular Formula</b>	C <sub>12</sub> H <sub>12</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>
<b>Molecular Weight</b>	319.14

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<b>Warnings</b>	<i>Heat sensitive!</i>
<b>Synonym 3</b>	DRB
<b>Appearance</b>	White to off-white powder
<b>Melting Point</b>	220 - 224 °C
<b>Elemental Analysis (Theory)</b>	C=44.50 - 45.80 %, N=8.50 - 9.10 %
<b>Optical Rotation</b>	$\alpha_{D}^{20} = -68$ to $-66^{\circ}$ (C=2 in Pyridine)
<b><sup>1</sup>H NMR</b>	Coforms to structure
<b>Purity by HPLC</b>	$\geq 98\%$
<b>Purity</b>	$\geq 98\%$
<b>Storage</b>	Store at $\leq -4^{\circ}\text{C}$
<b>Additional Information</b>	$\lambda_{\text{max}} = 296 \text{ nm}$

**For Laboratory Use Only**