



# Imatinib Mesylate PRODUCT DATA SHEET

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<b>Product Name:</b>	Imatinib Mesylate
<b>Product Number:</b>	I031
<b>CAS Number:</b>	220127-57-1
<b>Molecular Formula:</b>	$C_{29}H_{31}N_7O \cdot CH_3SO_3H$
<b>Molecular Weight:</b>	589.71
<b>Appearance:</b>	White to off-white solid
<b>Storage Conditions:</b>	2-8°C
<b>Description:</b>	Imatinib mesylate is a tyrosine kinase inhibitor used primarily in the treatment of leukemia. Chronic Myeloid Leukemia (CML) cells contain a hybrid tyrosine kinase BCR/ABL that works to provide the cancer cell with ATP at an uncontrolled rate. Imatinib mesylate inhibits this hybrid protein to slow cell growth and promote apoptosis.
<b>Mechanism of Action:</b>	Imatinib mesylate binds to the ATP binding site of the BCR/ABL tyrosine kinase and stabilizes its inactive form.
<b>References:</b>	<p>Goldman, J. M., &amp; Melo, J. V. (2003). Chronic Myeloid Leukemia — Advances in Biology and New Approaches to Treatment. <i>New England Journal of Medicine</i>, 349(15), 1451-1464. doi:10.1056/nejmra020777</p> <p>Marcucci, G., Perrotti, D., &amp; Caligiuri, M. A. (2003, April 1). Understanding the Molecular Basis of Imatinib Mesylate Therapy in Chronic Myelogenous Leukemia and the Related Mechanisms of Resistance. <i>Clinical Cancer Research</i>, 9(4), 1248-1252. Retrieved from <a href="http://clincancerres.aacrjournals.org/content/9/4/1248">http://clincancerres.aacrjournals.org/content/9/4/1248</a></p>

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