

Product Name:	Dasatinib
Product Number:	D074
CAS Number:	302962-49-8
Molecular Formula:	$C_{22}H_{26}ClN_7O_2S$
Molecular Weight:	488.01
Appearance:	White to off-white powder
Description:	<p>Dasatinib is multitarget kinase inhibitor used in the treatment of leukemia. Dasatinib's main targets are tyrosine kinase BCR/ABL, which works to provide the cancer cell with ATP at an uncontrolled rate causing rapid division, and the SRC family of kinases, which contribute to the malignant migration of cancers.</p> <p>Dasatinib is slightly soluble in ethanol and methanol, but insoluble in water.</p> <p>This product is considered a dangerous good. Quantities above 1 g may be subject to additional shipping fees. Please contact us for specific questions.</p>
Mechanism of Action:	Dasatinib is able to bind to the kinase domain of both the active and inactive forms of BCR/ABL for more effective inhibiting power.
References:	<p>Tokarski, J. S. (2006). The Structure of Dasatinib (BMS-354825) Bound to Activated ABL Kinase Domain Elucidates Its Inhibitory Activity against Imatinib-Resistant ABL Mutants. <i>Cancer Research</i>, 66(11), 5790-5797. doi:10.1158/0008-5472.can-05-4187</p> <p>Buettner, R., Mesa, T., Vultur, A., Lee, F., & Jove, R. (2008). Inhibition of Src Family Kinases with Dasatinib Blocks Migration and Invasion of Human Melanoma Cells. <i>Molecular Cancer Research</i>, 6(11), 1766-1774. doi:10.1158/1541-7786.mcr-08-0169</p>