



# Tazobactam sodium PRODUCT DATA SHEET

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<b>Product Name:</b>	Tazobactam sodium
<b>Product Number:</b>	T031
<b>CAS Number:</b>	89785-84-2
<b>Molecular Formula:</b>	$C_{10}H_{11}N_4NaO_5S$
<b>Molecular Weight:</b>	322.27
<b>Form:</b>	Powder
<b>Appearance:</b>	White or off-White Crystalline Powder
<b>Water Content (Karl Fisher):</b>	$\leq 4.0\%$
<b>pH:</b>	5.0-7.0
<b>Storage Conditions:</b>	2-8°C
<b>Description:</b>	Tazobactam sodium is a penicillin derived $\beta$ -lactamase inhibitor.
<b>Mechanism of Action:</b>	Tazobactam increases efficacy of $\beta$ -lactam antibiotics by inactivating $\beta$ -lactamase enzymes of $\beta$ -lactam resistant microbes.
<b>Microbiology Applications</b>	Tazobactam is often combined with piperacillin to prevent degradation from $\beta$ -lactamase secreting cells.
<b>References:</b>	Wishart, David. "Tazobactam." DrugBank. The Metabolomics Innovation Center, 13 June 2005. Web. 23 Aug. 2012.

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