

**MATERIAL DATA SHEET****20S Immunoproteasome, canine****Cat. # E-377**

The 20S catalytic core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Immunoproteasomes are modified forms of the constitutive 20S that function in MHC Class I antigen processing. During immunoproteasome assembly, the constitutive catalytic subunits (Delta, Z and X) are replaced by the inducible subunits LMP2, LMP7 and MECL, the former two being encoded by MHC. This protein has been purified from canine spleen.

**Product Information**

<b>Quantity:</b>	25 µg
<b>Stock:</b>	X mg/ml ( µM) in 50 mM HEPES pH 7.6, 100mM NaCl, 1mM DTT. Actual concentration will vary with specific Lot #.
<b>MW:</b>	700 kDa
<b>Purity:</b>	> 95% by SDS-PAGE

**Use & Storage**

<b>Use:</b>	Typical enzyme concentration for assay is 0.1-1 nM. 20S can be activated by SDS (0.035%) or with PA28 Activator (Cat. # E-380).
<b>Storage:</b>	Store at -80°C. Avoid multiple freeze/thaw cycles.

**Literature**

<b>References:</b>	Cardozo C. and Kohanski R.A. (1999) <i>J. Biol. Chem.</i> <b>273</b> :16764-16770
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	Kesmir C., <i>et al.</i> (2003) <i>Immunogen.</i> <b>7</b> : 437-449
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