



Recombinant Canine Pancreatic Lipase (DAG-WT1206)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Species	Canine
Purity	> 90% as determined by SDS-PAGE
Conjugate	His
Applications	Immunoassays
Molecular Weight	51.5 kDa
Format	Liquid
Size	200 µg, 1 mg
Buffer	50mM Tris, 300mM NaCl, pH8.0
Preservative	None
Storage	Store at -80°C. Avoid multiple freeze/thaw cycles.
Ship	Dry ice

BACKGROUND

Introduction	Pancreatic lipase, also known as pancreatic triacylglycerol lipase, is secreted from the pancreas, and is the primary lipase (enzyme) that hydrolyzes (breaks down) dietary fat molecules in the human digestive system, converting triglyceride substrates found in ingested oils to monoglycerides and free fatty acids. Triacylglycerol + H ₂ O diacylglycerol + a fatty acid anion Bile salts secreted from the liver and stored in gallbladder are released into the
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duodenum where they coat and emulsify large fat droplets into smaller droplets, thus increasing the overall surface area of the fat, which allows the lipase to break apart the fat more effectively. The resulting monomers (2 free fatty acids and one 2-monoacylglycerol) are then moved by way of peristalsis along the small intestine to be absorbed into the lymphatic system by a specialized vessel called a lacteal. This protein belongs to pancreatic lipase family.

Keywords	Pancreatic lipase; PNLIP; Canine
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GENE INFORMATION

UniProt ID	A0A8I3QDI3
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