

## PNLIP

### Native Human Lipase

<b>Catalog No.</b>	CSI14810A CSI14810B	<b>Quantity:</b>	33 units 330 units
<b>Alternate Names:</b>	Pancreatic triacylglycerol lipase		
<b>Description:</b>	Pancreatic lipase plays an important role in fat metabolism. It preferentially splits the esters of long-chain fatty acids at positions 1 and 3, producing mainly 2-monoacylglycerol and free fatty acids, and shows considerably higher activity against insoluble emulsified substrates than against soluble ones.		
<b>UniProt ID:</b>	P16233		
<b>Source:</b>	Human pancreas		
<b>Appearance:</b>	Off-white to tan powder		
<b>Solubility:</b>	Clear, colorless solution at 1 mg/ml in saline		
<b>Formulation:</b>	Lyophilized from Tris-HCl, pH 8.0 containing CaCl <sub>2</sub> and benzamidine.		
<b>Protein Content:</b>	≥ 0.10 mg protein/mg solid (Coomassie)		
<b>Specific Activity:</b>	≥ 90 U/mg protein (typically ≥ 200 U/mg)		
<b>Unit Definition:</b>	One unit will catalyzes the hydrolysis of one micromole per minute of 1,2 -o-dilauryl-rac-glycerol-3-glutaric acid-(6'-methylresorufin) ester in the presence of co-lipase, bile salt, and calcium chloride at 37°C.		
<b>Molecular Weight:</b>	48 kDa		
<b>Biological Activity:</b>	≥ 15 U/mg solid (or reported in U/vial) (Dimensions™ Clinical Chemistry System)		
<b>Solubility:</b>	Clear, colorless solution at 1 mg/ml in saline		
<b>Contaminants:</b>	α-Amylase: ≤ 0.3% Protease: ≤ 0.3% Ammonia: ≤ 0.1 μmole/mg solid		
<b>Reconstitution:</b>	<b>Centrifuge vial briefly to ensure complete recovery.</b> Reconstitute with Tris-buffered saline, containing 1 mM CaCl <sub>2</sub> , 1% BSA.		
<b>Storage &amp; Stability:</b>	Store as supplied at -20°C to -80°C for at least 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b>		
<b>Informed Consent:</b>	All donors provided signed Informed Consent in compliance with Declaration of Helsinki and filed with the appropriate agency/organization in the U.S.		
<b>Infectious Disease Statement:</b>	Non-reactive for HIV-1/HCV/HBV by NAT; HBsAg, HCV Ab, HIV-1&2 Ab and RPR by currently approved FDA methods. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 1999.		

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