

PNLIP

Native Human Lipase

Catalog No.	CSI14810A CSI14810B	Quantity:	100 units 500 units
Alternate Names:	Pancreatic triacylglycerol lipase		
Description:	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.		
UniProt ID:	P16233		
Source:	Human pancreas		
Appearance:	Off-white to tan powder		
Solubility:	Clear, colorless solution at 1 mg/ml in TBS		
Formulation:	Lyophilized from Tris-buffered saline, pH 8.0 containing CaCl ₂ and benzamidine.		
Protein Content:	≥ 0.10 mg protein/vial (Coomassie)		
Unit Definition:	One unit will catalyzes the hydrolysis of one micromole per minute of 1,2 -o-dilauryl-rac-glycero-3-glutaric acid-(6'-methylresorufin) ester in the presence of colipase, bile salt, and calcium chloride at 37°C.		
Molecular Weight:	48 kDa		
Biological Activity:	≥ 50 U/vial (Dimensions™ Clinical Chemistry System)		
Specific Activity:	≥ 300 U/mg protein (typically ≥ 1,000 U/mg)		
Contaminants:	Amylase: ≤ 0.1% Protease: ≤ 0.1% Ammonia: ≤ 0.1 μmole/mg solid		
Reconstitution:	Centrifuge vial briefly to ensure complete recovery. Reconstitute with Tris-buffered saline, containing 1 mM CaCl ₂ , 1% BSA.		
Storage & Stability:	Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		
Informed Consent:	All donors provided signed Informed Consent in compliance with Declaration of Helsinki and filed with the appropriate agency/organization in the U.S.		
Infectious Disease Statement:	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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