

## HUMAN ENZYMES

### Features

- All 10 enzymes are human type from recombinant cells.
- The characteristics of the enzymes are similar to those in human serum.
- The enzymes would be suited for making reference materials, calibrators, and control serums.

### Product List

Product Name	Catalog Number	Enzyme	Origin	EC Number
rhAST	46887903	Aspartate transaminase	Human liver	EC 2.6.1.1
rhALT	46896903	Alanine transaminase	Human liver	EC 2.6.1.2
rh $\gamma$ GT	46893903	$\gamma$ -glutamyltransferase	Human liver	EC 2.3.2.2
rhALP	46884903	Alkaline phosphatase	Human liver	EC 3.1.3.1
rhCK-MM	46906903	Creatine kinase-MM	Human muscle	EC 2.7.3.2
rhCK-MB	46905903	Creatine kinase-MB	Human heart	EC 2.7.3.2
rhLDH	46886903	Lactate dehydrogenase, LDH-1	Human heart	EC 1.1.1.27
rhP-AMY	46891903	$\alpha$ -amylase, pancreatic	Human pancreas	EC 3.2.1.1
rhS-AMY	46892903	$\alpha$ -amylase, salivary	Human saliva	EC 3.2.1.1
rhLIP	46883903	Lipase, pancreatic	Human pancreas	EC 3.1.1.3

\*For in vitro diagnostic or research use only.

### Preparation and Storage

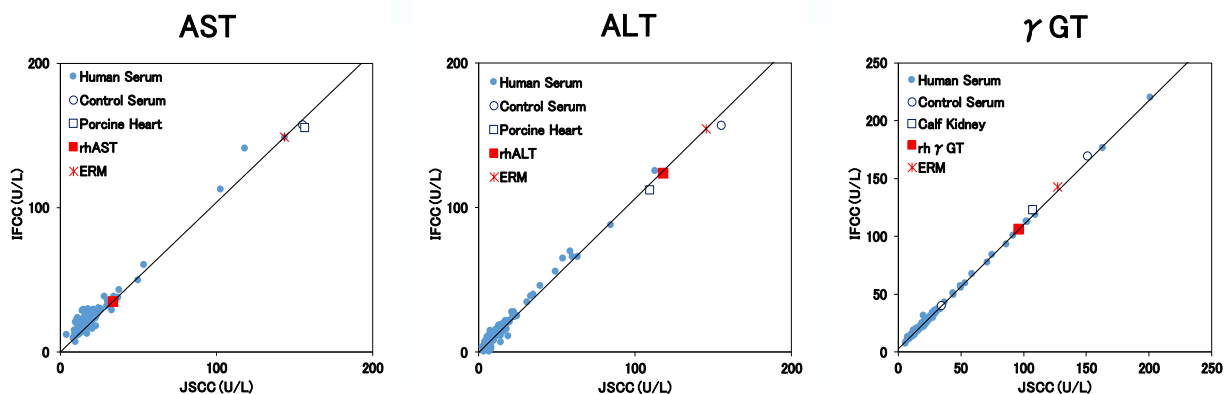
Lyophilized powder  
Store below -20°C

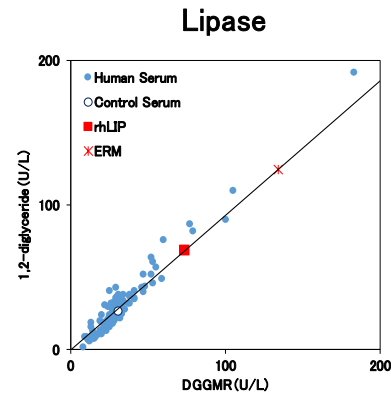
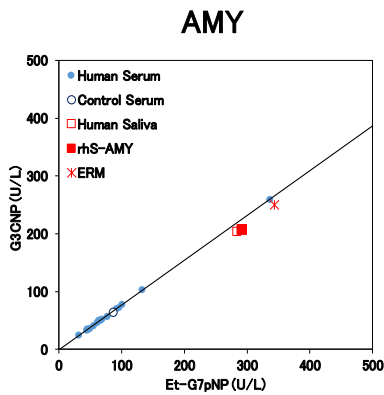
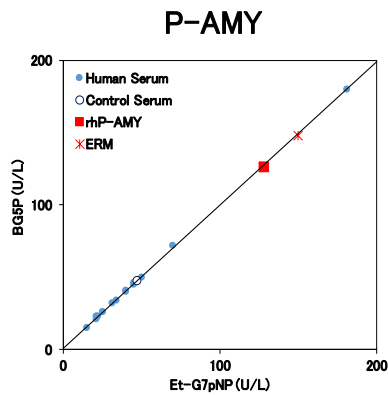
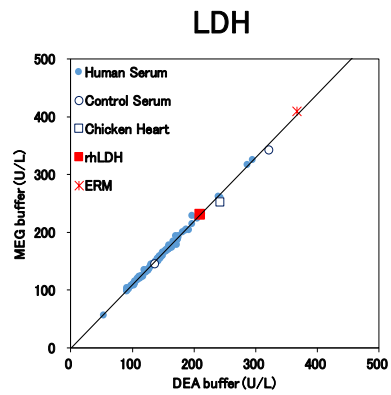
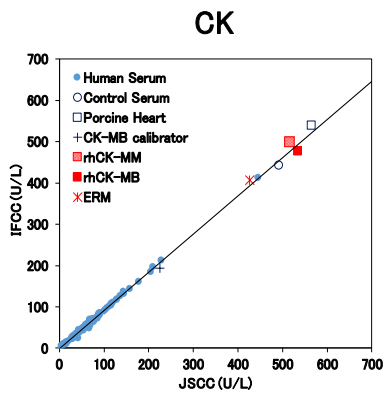
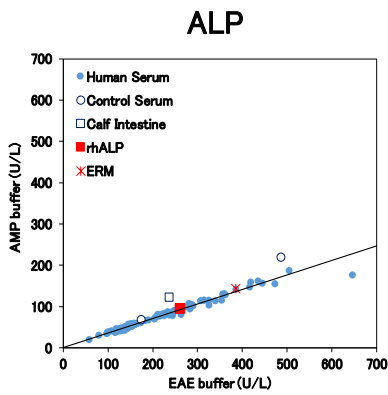
### Packing Size

Each 100 U/vial  
\* Please contact us for bulk order.

### Reference Data

Reactivity of enzyme is equivalent to that in human serum or ERM.





ERM : Japanese Enzyme Reference material  
 JSCC : Japan Society of Clinical Chemistry  
 IFCC : International Federation of Clinical Chemistry and Laboratory Medicine  
 AMP : 2-amino-2-methyl-1-propanol (buffer of IFCC method)  
 EAE : 2-(Ethylamino)ethanol (buffer of old JSCC method)  
 MEG : N-methyl-D-glucamine (buffer of IFCC method)  
 DEA : Diethanolamine (buffer of old JSCC method)  
 Et-G7pNP : 4,6-Ethylidene(G1)-4-nitrophenyl(G7)- $\alpha$ -(1 $\rightarrow$ 4)-D-maltoheptaoside  
 (substrate of JSCC and IFCC method)  
 G3CNP : 2-chloro-4-nitrophenyl - $\alpha$ -D-maltotrioside (other substrate for amylase)  
 BG5P : p-Nitrophenylbenzyl- $\alpha$ -maltopentaoside (other substrate for amylase)  
 DGGMR : 1,2-O-dilauryl-rac-glucero-3-glutaric acid-(6'-methylresorufin)-ester  
 (substrate for lipase)

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