

# SPMED™ Human Recombinant Enzymes

SPMED™ Human Recombinant Enzymes customized drug metabolism enzymes for drug development and bio-medical research



## Introducing SPMED™ Human Recombinant Enzymes

SPMED™ Human Recombinant Enzymes can be used in essential assays (substrate identification, inhibition study, time dependent inhibition, induction study, metabolic stability, etc.) across a variety of pharmaceutical fields, especially new drug development.

These enzymes are prepared from insect cells with recombinant baculovirus containing cDNA for a human cytochrome P450 (CYPs) isoenzymes with reductase (in some cases cytochrome b<sub>5</sub>), or a human UDP-glucuronosyltransferase (UGTs) isoenzymes.

These are the full complete enzyme list of CYPs, UGTs and more, which recommended by the US FDA for drug development and drug interaction study.

SPMED can help your research providing high-quality products.



## Features & Benefits

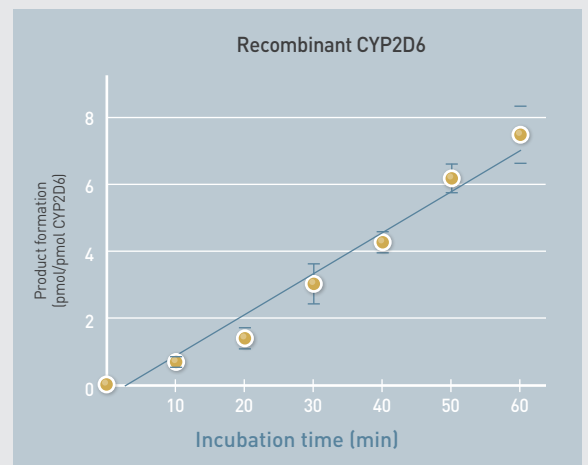
- ✓ Higher catalytic activities than the native enzymes from human liver microsomes (HLMs)
- ✓ High-expression system and quality control: Providing excellent quality products in high activity
- ✓ Guaranteed reliability by providing performance results including activity, kinetic assay, etc.
- ✓ Customized metabolic enzyme production considering genetic variant
- ✓ Reduction of time and cost by mass production within Korea



## High Activity and Linearity

SPMED™ Human Recombinant Enzymes show excellent linearity with time.

These products provide efficient metabolite production with long linear metabolite formation with typical times of over 30 minutes.



Customized orders are also available for other enzymes according to the requests, other than the existing items.

# SPMED™ Human Recombinant Enzymes

## ▶ Human P450 Enzymes

Description	P450 concentration	Qty
Human CYP1A2 + reductase	0.5 nmol	0.5 mL
Human CYP2A6 + reductase + b5	0.5 nmol	0.5 mL
Human CYP2B6 + reductase + b5	0.5 nmol	0.5 mL
Human CYP2C8 + reductase + b5	0.5 nmol	0.5 mL
Human CYP2C9 + reductase + b5	0.5 nmol	0.5 mL
Human CYP2C19 + reductase + b5	0.5 nmol	0.5 mL
Human CYP2D6 + reductase	0.5 nmol	0.5 mL
Human CYP2E1 + reductase + b5	0.5 nmol	0.5 mL
Human CYP2J2 + reductase + b5	0.5 nmol	0.5 mL
Human CYP3A4 + reductase + b5	0.5 nmol	0.5 mL
Human CYP3A5+ reductase + b5	0.5 nmol	0.5 mL
Human CYP4F2 + reductase + b5	0.5 nmol	0.5 mL

## ▶ Human UGT Enzymes

Description	Protein concentration	Qty
Human UGT1A1	5 mg/ml	0.5 mL
Human UGT1A3	5 mg/ml	0.5 mL
Human UGT1A4	5 mg/ml	0.5 mL
Human UGT1A6	5 mg/ml	0.5 mL
Human UGT1A9	5 mg/ml	0.5 mL
Human UGT2B4	5 mg/ml	0.5 mL
Human UGT2B7	5 mg/ml	0.5 mL
Human UGT2B15	5 mg/ml	0.5 mL

## ▶ Other Human Metabolic Enzymes

The products listed will be made after your order is received. Please contact us with the details of your project and we will provide timeline and quote.

Description	Protein concentration	Qty
Human FM01	5 mg/ml	0.5 mL
Human FM03	5 mg/ml	0.5 mL
Human FM05	5 mg/ml	0.5 mL
Human CES1	5 mg/ml	0.5 mL
Human CES2	5 mg/ml	0.5 mL
Human Monoamine Oxidase A (MAO-A)	5 mg/ml	0.5 mL
Human Monoamine Oxidase A (MAO-B)	5 mg/ml	0.5 mL
Human NAT1	5 mg/ml	0.5 mL
Human NAT2	5 mg/ml	0.5 mL



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