

*InVitro*CYP™ 150-Donor Human Liver Microsomes

Human liver microsomes are a major tool for studying metabolite ID, reaction phenotyping, intrinsic clearance and inhibition studies. *InVitro*CYP 150-donor pooled liver microsome activity represents the population average. BioreclamationIVT microsomes are prepared from fresh human tissue which ensures a higher retention of enzyme levels. Every donor used in the pool has a quality tested enzyme profile.

Features and Benefits

- **Pooled.** 150 qualified donors used to make the pool.
- **Quality.** BioreclamationIVT microsomes are quality checked by our independent quality control and quality assurance lab to guarantee quality and consistency.
- **Characterization.** BioreclamationIVT's extensive characterization and tissue profiling process guarantees that each lot of *InVitro*CYP microsomes will provide consistent and reproducible results.
- **Readily Available.** Each product is produced in large batches, so you can consistently use the same lot of microsomes across experiments.
- **Customization.** Microsomes can be prepared to customer specifications like specific donor demographics, vial configuration, enzyme activity, large lot sizes.

InVitroCYP™ 150-Donor Human Liver Microsomes

InVitroCYP human liver microsomes are characterized using the following assays.

Assay	Enzyme
7-ethoxycoumarin	Coupled phase I & II metabolism
7-hydroxycoumarin	ST
7-hydroxycoumarin	UGT
Phenacetin	CYP1A2
Coumarin	CYP2A6
Bupropion	CYP2B6
Tolbutamide	CYP2C9
S-mephenytoin	CYP2C19
Dextromethorphan	CYP2D6
Chlorzoxazone	CYP2E1
Midazolam	CYP3A4
Testosterone	CYP3A4

Activity is measured at the apparent K_m for each substrate. V_{max} is reported for the individual CYPs. In addition to the above assays, protein and Total P450 values are reported on the lot-specific product data sheet. *InVitroCYP* human liver microsomes are sold in vials of 0.5 mL (10 mg). Characterization information is available online.

Ordering Information

Product No.	Description
X008070	<i>InVitroCYP</i> ™ 150-Donor Human Liver Microsomes, 10 mg

Storage

InVitroCYP human liver microsomes must be stored in a mechanical cryogenic freezer below -70°C to guarantee the preservation of cytochrome P450 enzymes.



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InVitroCYP™ is a trademark of BioreclamationIVT

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 **BioreclamationIVT**
The complete resource for all biologicals