

## Human Hepatocyte Maintenance Medium

PRIMACYT has developed HHMM (Human Hepatocyte Maintenance Medium). HHMM is a serum-free culture medium containing Hepatocyte Growth Factor and Epidermal Growth Factor that allows cultivation of differentiated human hepatocytes for several weeks. Hepatocyte specific functions like detoxification of ammonia (urea synthesis and release) and albumin synthesis are maintained for several weeks. Cytochrome P450 protein expression and enzymatic activity is maintained and/or remains inducible (Fig. 1 and 2). HHMM may be used for long-term cultivation of hepatocytes or in hepatocyte bioreactors.

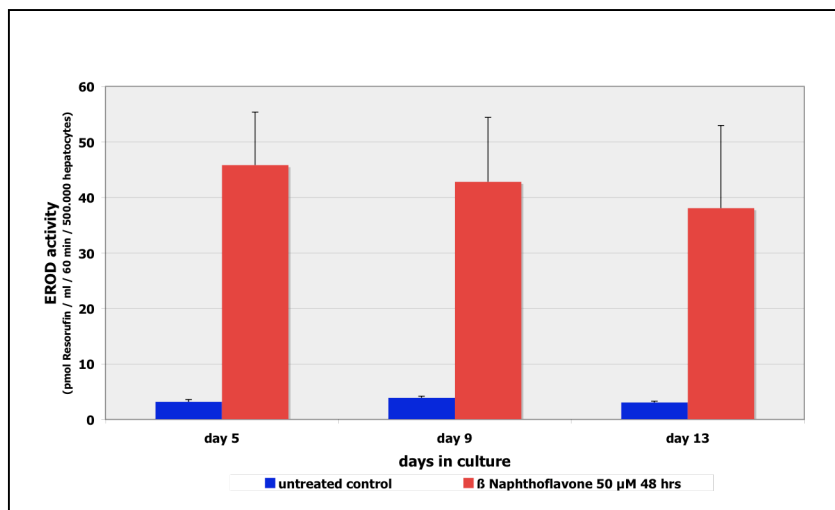


Fig. 1: Cytochrome P4501A2 associated Ethoxyresorufin-O-deethylase (EROD) activity can be induced by  $\beta$ -Naphthoflavone in human hepatocytes cultured with HHMM.

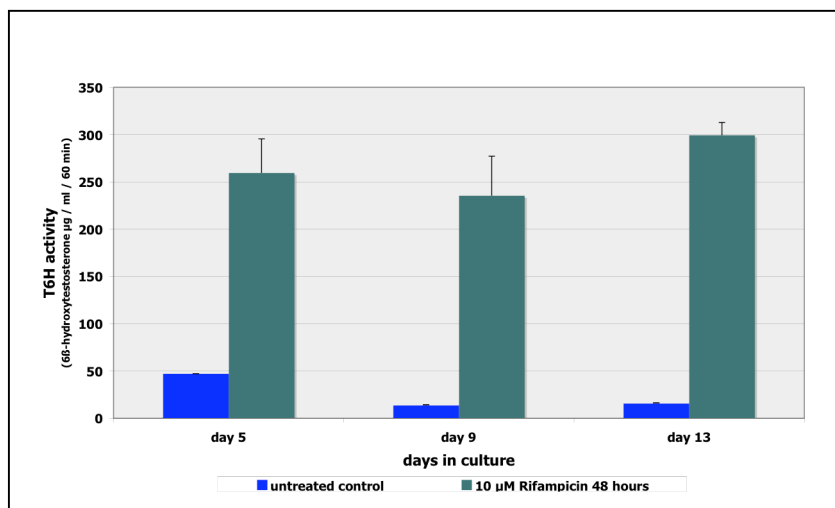


Fig. 2: Cytochrome P4503A4 associated Testosterone-6 $\beta$ -hydroxylase (T6H) activity can be induced by Rifampicin in human hepatocytes cultured with HHMM.