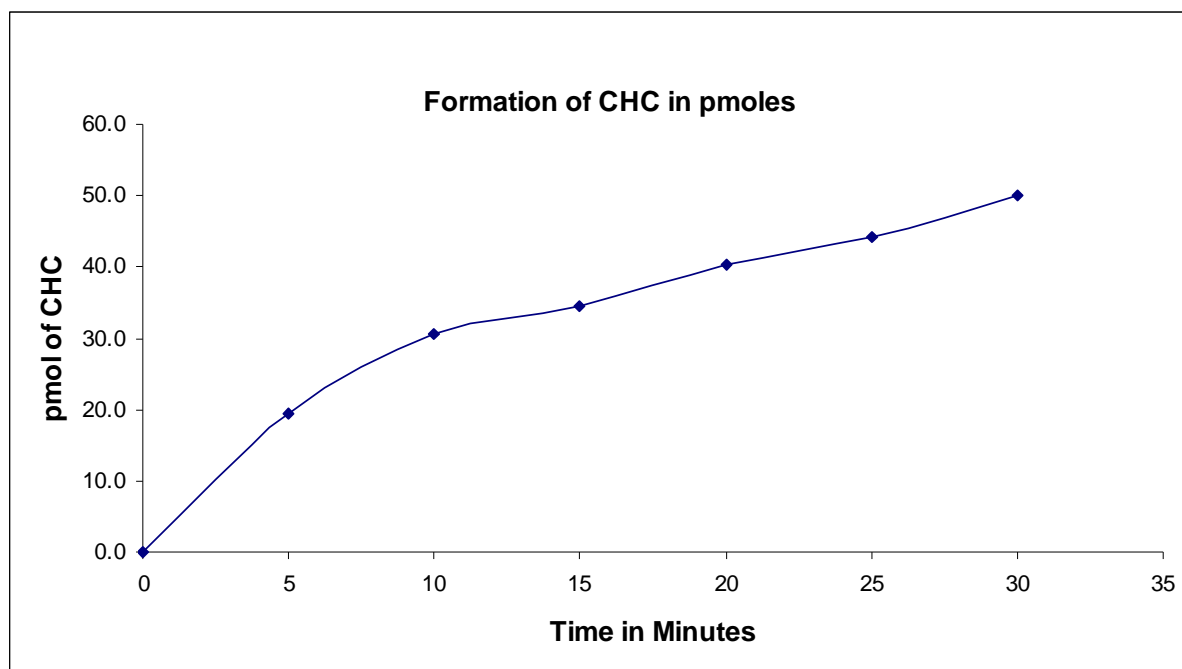

Certificate of Analysis
Certificate of Analysis & Research Application

Product Human CYP2D6 + Human P450 NADPH Reductase
Catalogue No PB CYP 260010
Lot Number

Product Description	Microsomes prepared from yeast (<i>S. cerevisiae</i>) containing human isozyme and human NADPH reductase expressed recombinantly. This product has distinct advantages over human liver microsomes, as only a single CYP P450 isozyme is expressed in combination with human NADPH reductase for in vitro drug metabolism. The absence of any other CYP isozyme thereby prevents the metabolism of the compound/substrate by any other CYP P450 isozymes or other classes of drug metabolizing enzymes.
Applications	Compound screening (Isozyme specific metabolism), inhibition studies and kinetic analysis,.
Product Data	
Pack Size	1.0 nmol in 1 mL
Cytochrome P450 content	31.25 pmol.mg ⁻¹
Protein Concentration	32 mg.ml ⁻¹
Specific Activity	2.06 pmol Metabolite.min ⁻¹ . pmol of CYP P450
CYP P450 Reductase Activity	1059 nmol Cytochrome reduced.min ⁻¹ .mg protein
Total Protein Content	Total protein estimated by Bradford protein assay method with BSA Standard.
Total Cytochrome P450 Yield	Total P450 content estimated by CO different spectra with the double beam spectrophotometer.
Reductase Activity	Reductase activity measured based on a colorimetric assay that measures the reduction of cytochrome c by NADPH-cytochrome c reductase in the presence of NADPH. The reduction of cytochrome c results in the formation of distinct bands in the absorption spectrum and the increase in absorbance at 550 nm is measured with time.
Product Use and Stability	Microsomes are supplied in phosphate buffer (pH) containing water, glycerol, sucrose, EDTA, and PMSF which are unlikely to interfere with most assays. For best results & stability parameters, please thaw the microsomes in ice and make appropriate aliquots as per requirement and store at -80°C. Microsomes are stable and active at -80°C for 12 months. Repeated freeze thaws lead to instability and decrease in activity.

Specific Activity:

The Conversion of EOMCC Substrate to 3-Cyano-7-hydroxycoumarin (CHC) product is measured over time. Values converted using a standard curve of 3-Cyano-7-hydroxycoumarin.



Safety

Product is not suspected to contain any pathogenic and hazardous materials. Properties have not been investigated extensively.

Ordering information

Please contact the personnel,

Contact and support

To call, write, fax, or email us, visit the Premas Biotech home page, www.premasbiotech.com/contact-us.aspx

or fax: +91 – 124 -4365221

or call: +91 – 124 -4546600

or Email: tech_support@premasbiotech.com

References

(Omura and Sato,. 1964).