



Product Information Sheet

Human CYP2A13R Bactosomes

Catalogue Number: CYP033
Product Description: Human CYP2A13 and human CYP-reductase coexpressed in *Escherichia coli*
Amount: 1 nmol cytochrome P450
Storage Buffer: 50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
Storage: Store at -80°C. Avoid frequent temperature changes. Thaw on ice.
Intended Use: For laboratory (research) purposes only.

Batch Number: C2A13R001/A
P450 Concentration: 5.5 nmol/ml
Protein Concentration: 16.0 mg/ml
Specific P450 Content: 344 pmol/mg protein
Cytochrome c Reductase Activity: 1137 nmol/min/mg protein

¹P450 Activity Data

Activity: Coumarin 7-hydroxylase
²Linear with time up to: 6 min
³Linear with P450 up to: 2.5 pmol/ml
 V_{max} : 3.5 pmol/min/pmol CYP
 K_m : 0.32 μ M

Approved by  _____

Date 28th July, 2010

Notes:

¹Unless otherwise stated, all assays are carried out at 37°C in 50 mM potassium phosphate buffer (pH 7.4) containing 5 mM magnesium chloride and an NADPH generating system [5 mM glucose 6-phosphate, 1 mM NADP⁺, 1 U/ml glucose 6-phosphate dehydrogenase].

²Determined at 0.2 μ M substrate, using a P450 concentration of 2 pmol/ml.

³Determined at 0.2 μ M substrate, using an incubation time of 5 min.

Safety Data

The toxicological properties of this reagent have not been investigated. Exercise due care when handling.

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