

## SUPPLEMENTAL MATERIAL

### *MRC CIV enzymatic activity*

Medium composition: 50 mM potassium phosphate pH 7.0, 100  $\mu$ M reduced cytochrome c (SIGMA c-7752) and PBMC homogenate. Initial solution with 50 mM KP pH 7.0 and 100  $\mu$ M cytochrome c was prepared in a ratio 0.805 ml buffer/mg cytochrome c). A 100% oxidised solution was prepared by adding potassium ferrocyanide in 1 ml of initial solution. A 100% reduced solution was prepared by adding sodium dithionite to 2 ml of initial solution. Absorbance of 100% oxidised solution at 550 nm was confirmed around 0.7 as quality control. Autozero of oxidised solution was set to measure absorbance of 100% reduced solution, which was considered as 100% reduced. Titration of initial solution was conducted by transferring aliquotes of the reduced solution to the initial cytochrome c solution and reading the absorbance until 90-95% of reduction was yielded. After initial air calibration at 550nm, 980  $\mu$ l of 90-95% reduced solution was incubated at 37°C for 5 minutes in the spectrophotometer. Reaction was initiated by adding 20  $\mu$ l of cell suspension and absorbance was monitored every 15 seconds during 3 minutes, in a 6-cuvette carousel simultaneously. (Units: nanomoles/min mg protein, cytochrome c molar extinction coefficient:  $\Sigma = 18,5 \text{ mM}^{-1}\text{cm}^{-1}$ ).

### *MRC CS enzymatic activity*

The reduced CoA (CoA-SH) formed in the reaction converts 5,5'-dithiobis 2-nitrobenzoic acid (DTNB) into 2-nitro-5-benzoic acid (TNB), which absorbs at 412 nm. (23). Medium composition: 100  $\mu$ M DTNB 100 mM Tris HCl pH 8.1 300  $\mu$ M acetyl coenzyme A, 500  $\mu$ M oxaloacetate, 0,1 % triton X100 and cell suspension. After initial air calibration at 412 nm, 930  $\mu$ l of medium and 20  $\mu$ l of cell suspension mixture were incubated at 37°C in the spectrophotometer. Basal line was monitored every 15

seconds during 4 minutes, in a 6-cuvette carousel simultaneously. Reaction was initiated by 50  $\mu$ l of 10 mM oxaloacetate (in Tris HCl 100 mM pH 8.1) and measured every 15 seconds during 4 minutes. Basal activity was subtracted from the specific activity. (Units: nanomoles/min mg protein, DTNB molar extinction coefficient:  $\Sigma=13,6 \text{ mM}^{-1}\text{cm}^{-1}$ ).