

Supplementary Figure Legends

Figure S1.

NAM catabolite analysis in NAM-treated rats.

Male 8-week-old Wistar rats (n= 5 to 6/group)) were intraperitoneally injected with either NAM dissolved in isotonic saline (1 g/kg body weight). After 3 or 6 h, total NAM catabolites were measured in urine. (A) NAM, (B) MNA, (C) 2-Py, (D) 4-Py. Data are presented as mean \pm SEM. ** $P < 0.01$ versus vehicle-treated rats.

Figure S2

Effect of NAM on plasma and urine P_i and Ca

Male 8-week-old Wistar rats (n= 5 to 6/group)) were intraperitoneally injected with either NAM dissolved in isotonic saline (1 g/kg body weight) or saline. Metabolic cages were used for 3 or 6 h. Plasma and urine were collected after 3 h (I) or 6 h (II). (A) Plasma P_i , (B) Urine P_i / Cr, (C) Plasma Ca, (D) Urine Ca/Cr. Data are presented as mean \pm SEM. * $P < 0.05$ versus vehicle-treated rats.

Figure S3

Renal BBMVs Na/ P_i transport activity and levels of NaPi-IIa expression in NAM treated rats.

Male 8-week-old Wistar rats (n=5 to 6/group)) were intraperitoneally injected with either NAM dissolved in isotonic saline (1 g/kg body weight) or saline. Renal BBMVs were purified after 3 or 6 h. (A) Na/ P_i transport activity in renal BBMVs. (B) Western blotting analysis of NaPi-IIa in renal BBMVs. Each lane was loaded with 20 μ g of renal BBMVs. Actin was used as an internal control. Data are presented as mean \pm SEM.

* $P < 0.05$, ** $P < 0.01$ versus vehicle-treated rats.

Figure S4

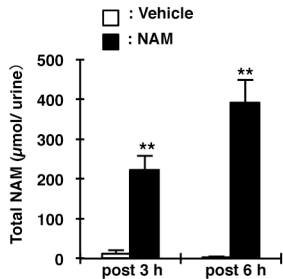
Effect of FK866 as a Nampt-specific inhibitor on PH mice

PH mice were intraperitoneally injected with FK866 (n=5-8/group; 25 mg/kg body weight). FK866 was immediately injected after hepatectomy.³¹ Urine Pi/urine creatinine (Cr) and plasma Pi were measured 8 h after injecting FK866 in sham and PH mice. (A) Urine Pi/ Cr. (B) Plasma Pi. Data are presented as mean \pm SEM. * $P < 0.05$, ** $P < 0.01$

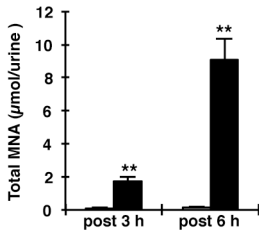
Reference

31. Pittelli M, Formentini L, Faraco G, Lapucci A, Rapizzi E, Cialdai F, Romano G, Moneti G, Moroni F, Chiarugi A: Inhibition of nicotinamide phosphoribosyltransferase: cellular bioenergetics reveals a mitochondrial insensitive NAD pool. *J Biol Chem* 285: 34106-34114, 2010.

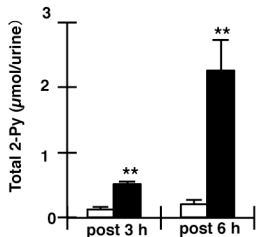
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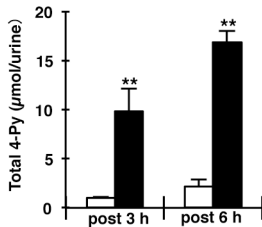
B



C

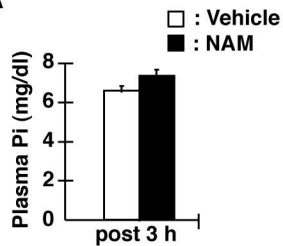


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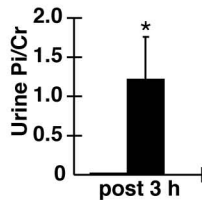


I)

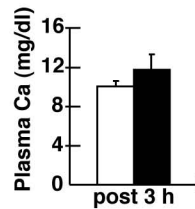
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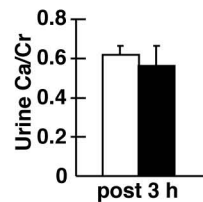
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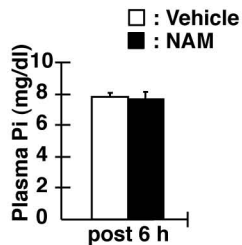


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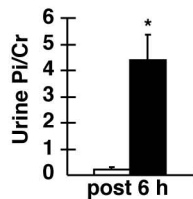


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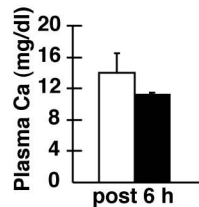
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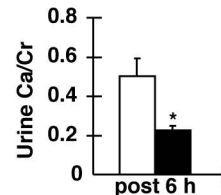
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D



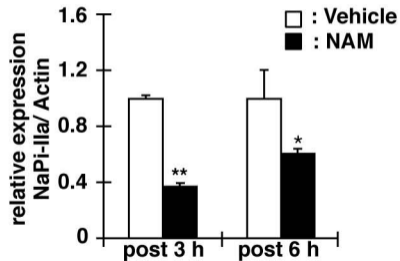
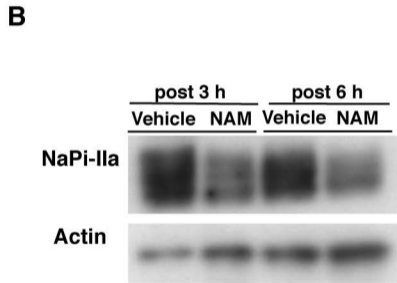
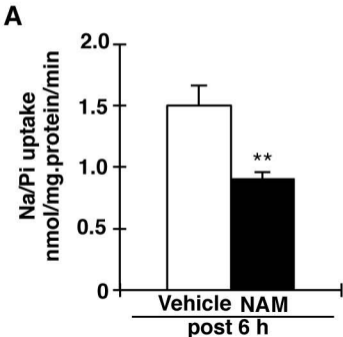
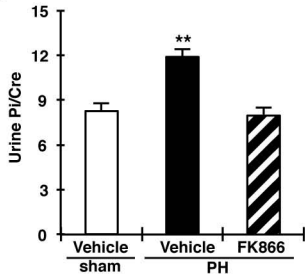


Figure S4

A



B

