

MR-proADM

**Mid-regional pro-Adrenomedullin (MR-proADM)
can be a useful prognostic marker for heart disease.**

Mid-regional pro-adrenomedullin as a novel predictor of mortality in patients with chronic heart failure

AIMS: Adrenomedullin (ADM) is a vasodilatory peptide. Its plasma levels or its precursors have not been evaluated in large populations of patients with chronic heart failure (CHF). We sought to explore mid-regional proADM (MR-proADM). METHODS AND RESULTS: We assessed MR-proADM in 501 CHF patients [age 63 +/- 11 years, New York Heart Association (NYHA) class I/II/III/IV 9/44/39/8%, median N-terminal pro-B-type natriuretic peptide (NT-proBNP) 878 pg/mL (interquartile range-IQR 348-2480 pg/mL), median left ventricular ejection fraction (LVEF) 31% (IQR 25-37%)]. Mid-regional pro-adrenomedullin levels (median 0.64 nmol/L, IQR 0.49-0.87 nmol/L) increased with NYHA class ($P < 0.0001$). During 1-year follow-up, 70 patients (14%) died. Increasing MR-proADM was a predictor of poor survival at 12 months (hazard ratio 1.82, 95% confidence interval 1.24-2.66, $P = 0.002$) after multivariable adjustment. In receiver-operating characteristic curve analysis of 12-month survival, the area under the curve for MR-proADM and NT-proBNP was similar ($P = 0.3$). Comparison of Cox proportional hazard models using the likelihood ratio chi(2) statistic showed that both NT-proBNP and MR-proADM added prognostic value to a base model of LVEF, age, creatinine, and NYHA class. Adding MR-proADM to the base model had stronger prognostic power than adding NT-proBNP (both $P < 0.01$). CONCLUSION: Mid-regional pro-adrenomedullin is an independent predictor of mortality in CHF patients, which adds prognostic information to NT-proBNP.

von Haehling et al. Eur J Heart Fail. 2010 May;12(5):484-91. Epub 2010 Mar 9.



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Adrenomedullin Precursor - Human



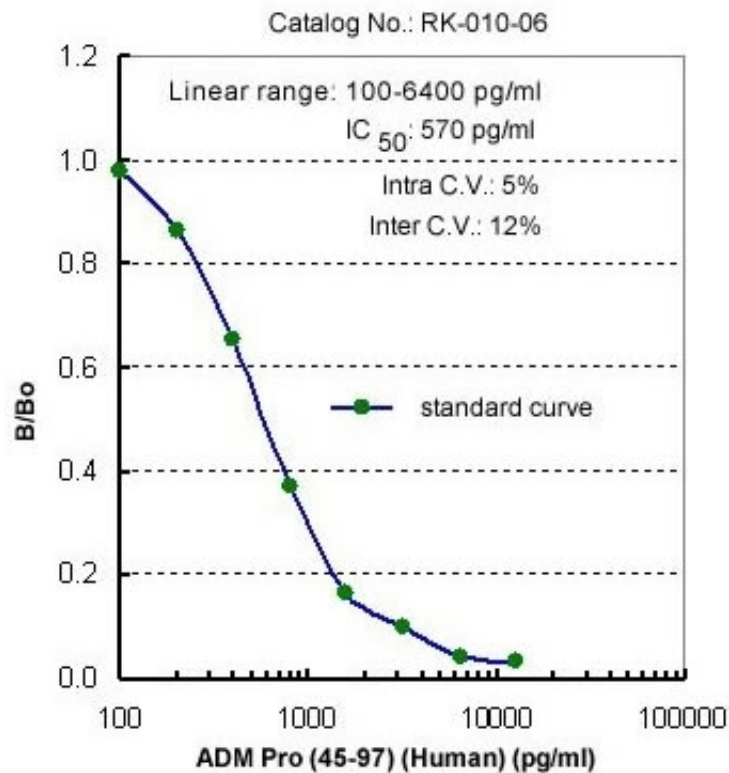
Kitamura, K., et. al., *BBRC*. 194 (2), 720-725 (1993)

Adrenomedullin Precursor - Rat



Sakata, J., et. al., *BBRC*. 195 (2), 921-927 (1993)

Adrenomedullin, Pro (45-92), (Human) RIA Kit



Catalog No.	Product Name	Size
010-06	Adrenomedullin (45-92), Pro (Human)	100 µg
G-010-06	Adrenomedullin (45-92), Pro (Human) - Purified IgG Antibody	400 µg
RK-010-06	Adrenomedullin (45-92), Pro (Human) - RIA Kit	1 kit
T-010-06	Adrenomedullin (45-92), Pro (Human) - I-125 Labeled	10 µCi
T-G-010-06	Adrenomedullin (45-92), Pro (Human) - I-125 Labeled Purified IgG	10 µCi