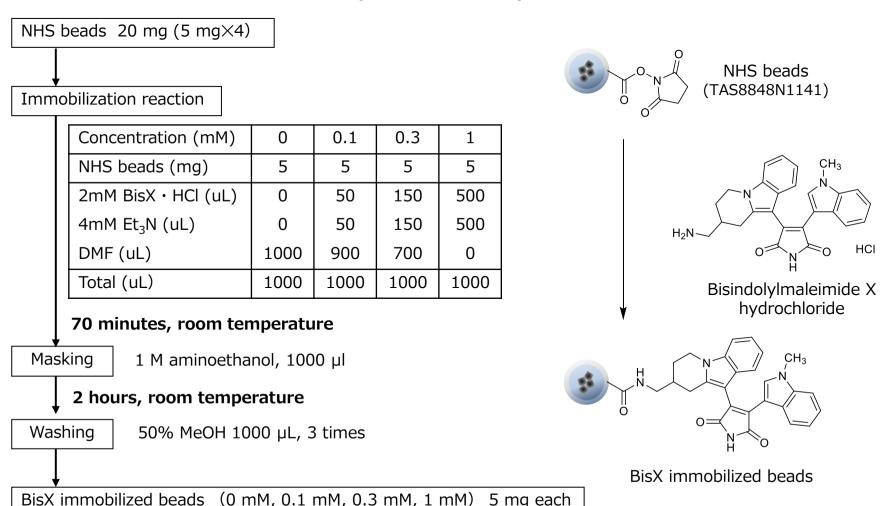
Purification of proteins binding Bisindolylmaleimide X

This study is the collaboration with a pharmaceutical company.

Bisindolylmaleimide is a compound with a structure in which two indole rings are bonded to a maleimide group, and Bisindolylmaleimide X (BisX) with this skeleton acts as a protein kinase (PKC) inhibitor. In this experiment, Bisindolylmaleimide X hydrochloride was immobilized on FG beads® and bound proteins were purified from cell extracts.

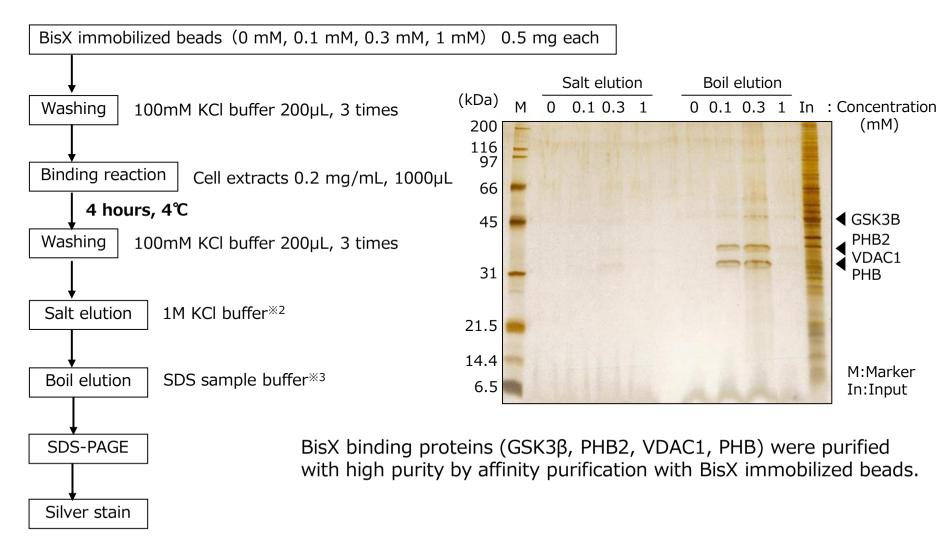
Method 1 Immobilization of Bisindolylmaleimide X hydrochloride (based on Protocol 014)



Purification of proteins binding Bisindolylmaleimide X

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Method 2 Affinity purification with Bisindolylmaleimide X immobilized beads (based on Protocol 001)



%1:100 mM KCl buffer: 20 mM HEPES-NaOH(pH7.9), 100 mM KCl, 1 mM MgCl₂, 0.2 mM CaCl₂, 0.2 mM EDTA, 10% glycerol, 0.1% NP-40, 1 mM DTT, 0.2 mM PMSF

 $\%2:1\ \text{M KCl buffer}:20\ \text{mM HEPES-NaOH(pH7.9)},\ 1\ \text{M KCl,}\ 1\ \text{mM MgCl}_2,\ 0.2\ \text{mM CaCl}_2,\ 0.2\ \text{mM EDTA},\ 10\%\ \text{glycerol},\ 0.1\%\ \text{NP-40},\ 1\ \text{mM DTT},\ 0.2\ \text{mM PMSF}$

3: SDS sample buffer: 62.5 mM Tris-HCl(pH6.8), 0.005% BPB, 2% SDS, 10% glycerol, 5% 2-Mercaptoehanol