

IDENTIFIKASI PROTEIN 36 kDa YANG DIDUGA *KIT-LIGAND* DARI CAIRAN FOLIKEL OVARIUM SAPI DENGAN METODE ELEKTROFORESIS

**ANDRIKA INDRA PRATOMO**

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**ABSTRACT**

The research was comprised of researches on protein *Kit-Ligand* in liquor folliculi ovary of bovine. *Kit-Ligand* was protein to improve the quality of oocytes for using *in vitro* embryo production. *Kit-Ligand* have to produced by granulose cells ovary follicle of bovine. Embryo production with *in vitro* method could use to Embryo Transfer technology. *C-kit* was receptor of *Kit-Ligand*. *C-kit* could be found in oocytes and granulose cells ovary of bovine. The research was aimed at identification of protein *Kit-Ligand* isolated from liquor folliculi of bovine ovary. Bovine ovary obtained from a slaughterhouse was aspirated in its ovary follicle > 5 mm with spuit and needle then sentrifuged by sentrifugator. Liquor folliculi from sentrifuge method collected with pipet. Identification of protein *Kit-Ligand* was carried out by means of *Sodium Sulphat Polyacrylamide Gel Electrophoresis* (SDS-PAGE). From the result, several protein fractions were obtained. Based on the calculation of regression equation resulting from protein marker to determine the molecular weight of protein *Kit-Ligand*, 10 fractions were determined, 155,55 kDa, 87,28 kDa, 75,54 kDa, 63,31 kDa, 53,93 kDa, 48,98 kDa, 36,10 kDa, 26,10 kDa, 26,61 kDa, 22,67 kDa. Protein appearing in the protein band the molecular weight of 36,10 kDa was first identified as *Kit-Ligand* initiating follicle development.