

**SKRINING SENYAWA INHIBITOR H2 DARI KAYU MANIS  
(*Cinnamomum verum* J.Presl)**

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**ABSTRAK**

Gangguan saluran pencernaan khususnya gangguan lambung sering dialami masyarakat. Salah obat untuk mengatasi gangguan ini mempunyai mekanisme menghambat reseptor H2. Penelitian ini dilakukan untuk mencari senyawa dari *C.verum* yang mempunyai kestabilan berikatan dengan reseptor H2. Metode yang digunakan adalah pemodelan protein dengan *swiss-model*, *docking* dengan PLANTS (CHEMPLP) dan prediksi aktivitas. Hasil uji yang diperoleh pada skor *docking* adalah *α-amorphene* (-65,79), *α-bergamotene* (-65,48), *α-copaene* (-66,62), *α-cubebene* (-66,46), *Cadinene* (-64,79), *Camphor* (-52,15), *Caryophyllene* (-62,61), *Cinnamaldehyde* (-68,17), *Epicatechin* (-80,43), *Ergosterol* (-85,24), *Eugenol* (-67,35), *Hydrocinnamaldehyde* (-65,53), *Kuersetin* (-74,38), *Protocatechuic acid* (-71,49), *Stigmasterol* (-88,88), 4-[2,3-dihydro-3-(*hydroxymethyl*)-5-(3-*hydroxypropyl*)-7-(*methoxy*)benzofuranyl]-2-*methoxyphenyl* (-85,29). Dikombinasikan dengan *probability activity* senyawa yang berpotensi untuk dikembangkan lebih lanjut adalah *Epicatechin* dan *urolignoside*.

**Kata kunci:** Reseptor H2, *C.verum*, Skor Docking

**ABSTRACT**

*Digestive tract disorders, especially gastric disorders, are often experienced by people. One drug to treat this disorder has a mechanism of blocking the H2 receptor. This research was conducted to find compounds from C.verum which have the stability of bind to H2 receptors. The method used is protein modeling with swiss-model, docking with PLANTS (CHEMPLP) and activity prediction. The test results obtained that the docking score was α- amorphene (-65,79), α-bergamotene (-65,48), α-copaene (-66,62), α-cubebene (-66,46), Cadinene (-64, 79), Camphor (-52.15), Caryophyllene (-62.61), Cinnamaldehyde (-68.17), Epicatechin (-80.43), Ergosterol (-85.24), Eugenol (-67.35), Hydrocinnamaldehyde (-65,53), Quercetin (-74,38), Protocatechuic acid (-71,49), Stigmasterol (-88,88), 4- (2,3-dihydro-3-(*hydroxymethyl*) - 5- (3-*hydroxypropyl*) - 7- (*methoxy*) benzofuranyl] -2-*methoxyphenyl* (-85,29). Combined with the probability activity of compounds that have the potential to be further developed are Epicatechin and urolignoside.*

**Keywords:** H2 receptor, *C.verum*, docking score