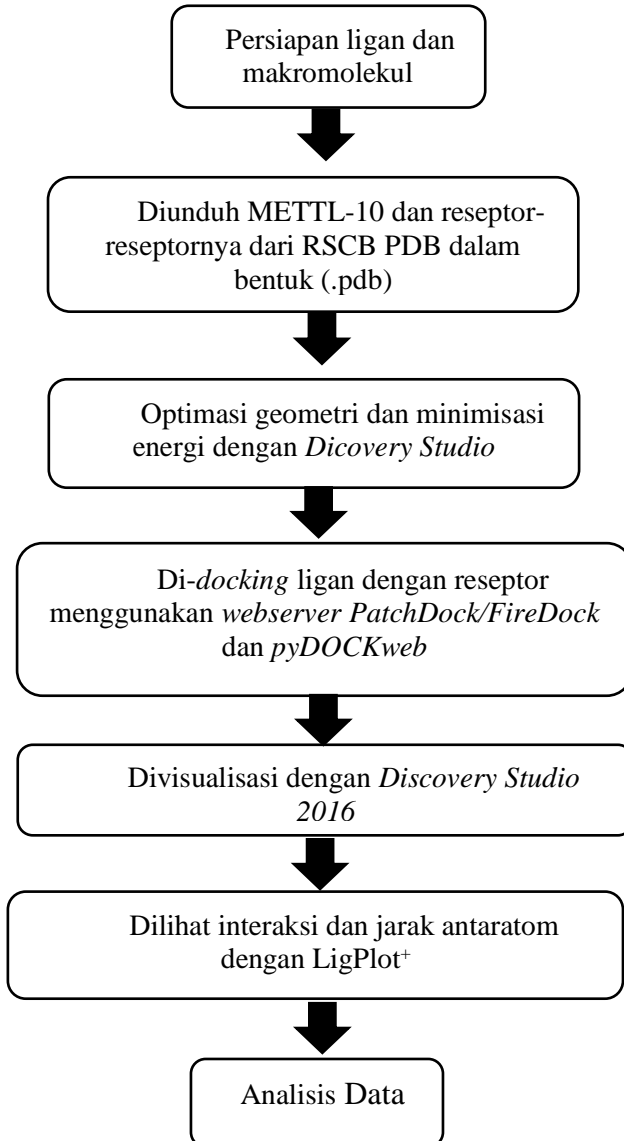


LAMPIRAN

LAMPIRAN 1

DIAGRAM ALIR PENELITIAN



LAMPIRAN 2

Perhitungan Konstanta Inhibisi (Ki)

2.1 Perhitungan Ki METTL10-DMAP1

$$\begin{aligned} Ki &= e^{\frac{\Delta G}{RT}} \\ &= e^{-39.384 \text{ kal/mol} / 1.978 \text{ kal/mol.K} \times 309 \text{ K}} \\ &= e^{-0.064} \\ &= 0.938 \end{aligned}$$

2.2 Perhitungan Ki METTL10-EEF1A1

$$\begin{aligned} Ki &= e^{\frac{\Delta G}{RT}} \\ &= e^{-44.580 \text{ kal/mol} / 1.978 \text{ kal/mol.K} \times 309 \text{ K}} \\ &= e^{-0.073} \\ &= 0.930 \end{aligned}$$

2.3 Perhitungan Ki METT10-METTTL7B

$$\begin{aligned} Ki &= e^{\frac{\Delta G}{RT}} \\ &= e^{-75.168 \text{ kal/mol} / 1.978 \text{ kal/mol.K} \times 309 \text{ K}} \\ &= e^{-0.123} \\ &= 0.884 \end{aligned}$$

2.4 Perhitungan Ki METTL10-NIP7

$$\begin{aligned} Ki &= e^{\frac{\Delta G}{RT}} \\ &= e^{-36.895 \text{ kal/mol} / 1.978 \text{ kal/mol.K} \times 309\text{K}} \\ &= e^{-0.060} \\ &= 0.942 \end{aligned}$$

2.5 Perhitungan Ki METTL10-TREX1

$$\begin{aligned} Ki &= e^{\frac{\Delta G}{RT}} \\ &= e^{-51.415 \text{ kal/mol} / 1.978 \text{ kal/mol.K} \times 309\text{K}} \\ &= e^{-0.084} \\ &= 0.919 \end{aligned}$$

2.6 Perhitungan Ki METTL10-TREX2

$$\begin{aligned} Ki &= e^{\frac{\Delta G}{RT}} \\ &= e^{-41.095 \text{ kal/mol} / 1.978 \text{ kal/mol.K} \times 309\text{K}} \\ &= e^{-0.067} \\ &= 0.935 \end{aligned}$$

2.7 Perhitungan Ki METTL10-METTL20

$$\begin{aligned} Ki &= e^{\frac{\Delta G}{RT}} \\ &= e^{-57.099 \text{ kal/mol} / 1.978 \text{ kal/mol.K} \times 309\text{K}} \\ &= e^{-0.093} \\ &= 0.911 \end{aligned}$$

2.8 Perhitungan Ki METTL10-METTL21A

$$\begin{aligned} Ki &= e^{\frac{\Delta G}{RT}} \\ &= e^{-38.371 \text{ kal/mol} / 1.978 \text{ kal/mol.K} \times 309\text{K}} \\ &= e^{-0.063} \\ &= 0.939 \end{aligned}$$

2.9 Perhitungan Ki METTL10-METTL21D

$$\begin{aligned} Ki &= e^{\frac{\Delta G}{RT}} \\ &= e^{-57.099 \text{ kal/mol} / 1.978 \text{ kal/mol.K} \times 309\text{K}} \\ &= e^{-0.093} \\ &= 0.911 \end{aligned}$$

2.10 Perhitungan Ki METTL10-SRP9

$$\begin{aligned} Ki &= e^{\frac{\Delta G}{RT}} \\ &= e^{-31.168 \text{ kal/mol} / 1.978 \text{ kal/mol.K} \times 309\text{K}} \\ &= e^{-0.051} \\ &= 0.950 \end{aligned}$$

2.11 Perhitungan Ki METTL10-ZNF468 -38.163

$$\begin{aligned} Ki &= e^{\frac{\Delta G}{RT}} \\ &= e^{-38.163 \text{ kal/mol} / 1.978 \text{ kal/mol.K} \times 309\text{K}} \\ &= e^{-0.062} \\ &= 0.940 \end{aligned}$$

LAMPIRAN 3

Sekuens Protein METTL10 (UniProt ID: Q5JPI9)

MSSGADGGGGAAVAARSDKGGSPGEDGFVPSALGTREHWDA
VYERELQTFREYGDTGEIWFGEESMNRLLRWMQKHKIPDAS
VLDIGTGNGVFLVELAKFGFSNITGIDYSPSAIQLSGSIIKEEGL
SNIKLVKVEDFLNLSTQLSGFHICIDKGTDAISLNPDAIEKRK
QYVKLSLRVLKVKGFFLITSCNWTKEELLNEFSEGWSTVAGF
WLTAALTSWAQAIFFSTSASRVGGTTGTHHAWIIFVFLAETR
FCHVVQAGLELLGSSDSPTWPPKVLGLYHARPSLAF

LAMPIRAN 4

Sekuens Protein SRP9 (UniProt ID: P49458)

MPQYQTWEEFSRAAEKLYLADPMKARVVLKYRHS DGNLCV
KVTDDLVLVYKTDQAQDVKKIEKFHSQMLRMLMVAKEARN
VTMETE

LAMPIRAN 5

Sekuens Protein METTL20 (UniProt ID: Q8IXQ9)

MALSLGWKAHRNHCGLLLQALRSSGLLLFP CGQCPWRGAGS
FLDPEIKAFLEENTEVTSSGSLTPEIQLRLLTPRCKFWWERAD
LWPHSDPYWAIYWP GGQALSRYLLDNP DVVRGKSVLDLGSG
CGATAIAAKMSGASRILANDIDPIAGMAITLNCELNRLNPFIL
IQNILNLEQDKWDLVVLGDMFYDEDLADSLHQWLK KCFWT
YRTRVLIGDPGRPQFSGHSIQHHLHKVVEYSLLESTRQENSGL
TTSTVWGFQP

LAMPIRAN 6

Sekuens Protein METTL21A (UniProt ID: Q8WXB1)

MALVPYEETTEFGLQKFHKPLATFSFANHTIQIRQDWRHLGV
AAVVWDAAIVLSTYLEMGAVELRGRSAVELGAGTGLVGIVA
ALLGAHVTTDRKVALEFLKSNVQANLPPHIQTKTVVKELTW
GQNLGSFSPGEFDLILGADIIYLEETFTDLLQTLLEHLCNSHSLV
LACRIRYERDNNFLAMLERQFTVRKVHYDPEKDVHIYEAQK
RNQKEDL

LAMPIRAN 7

Sekuens Protein METTL21D (UniProt ID: Q9H867)

MADTLESSLEDPLRSFVRVLEKRDGTVLRLLQQYSSGGVGCV
VWDAAIVLISKYLETPEFSGDGAHALSRRSVLELGSSTGAVGL
MAATLGADVVDLEELQDLLKMNINMNKHLVTGVSQAKV
LKWGEEIEGFSPPDFILMADCIYEEESLEPLLKTLKDISGFET
CIICCYEQRTMGKNPEIEKKYFELLQLDFDFEIKIPLEKHDEEY
RSEDIHIIYIRKKKSKFSP

LAMPIRAN 8

Sekuens Protein ZNF468 (UniProt ID: Q5VIY5)

MALPQGLLTFRDVAIEFSQEEWKCLDPAQRTLYRDVMLENY
RNLVSLDISSKMLKTLSSSTGQGNTEVIHTGTLHRQASHHIGE
FCFHEIEKDIHGFEFQWKEDETNGHAAPMTEIKELAGSTGQH
DQRHAGNKRKIDQLGSSFHLHLPEPHIFQSEGKIGNQVEKSN
NASSVSTSQRICCRPKTHISNKYGNNSLHSSLLTQKWEVHMR
EKSFECIQSFKSFNCSSLLKQHIIHLEEKQCKCDVCGKVFNQ
KRYLACHRRCHTGEKPYKCNECGKTFGHNSSLFIHKALHTGE
KPYECECDKVFSRKSHLERHKRIHTGEKPYKCKVCDEAFAY
NSYLAKHTILHTGEKPYTCNECGKVFNRLSTLARHHRLHTGE
KPYKCECDKVFSRKSHLERHRIHSGEKPYKCEECCKVFSR
KSNLERHRIHTGEKPYKCKVCDKAFQRDSHLAQHQRVHTG
EKPYKCNECGKTFGQTSSLIHRRLLHTGEKPYKCNECGKTFSQ
MSSLVYHHRLHSGEK

LAMPIRAN 9

Sekuens Protein DMAP1 (UniProt ID: Q9NPF5)

MATGADV RDILELGGPEGDAASGTISKKDIINPDKKKSKKSSE
TLTFKRPEGMHREVYALLYSDKKDAPLLPSDTGQGYRTVK
AKLGSKKVRPWKWPFTNPARKDGAMFFHWRRAAEEGKD
YPFARFNKTVQVPVYSEQEYQLYLHDDAWTKAETDHLFDLS
RRFDLRFVVIH DRYDHQQFKKRSVEDLKERYYHICAKLANV
RAVPGTDLKIPVFDAGHERRRKEQLERLYNRTPEQVAEEEYL
LQELRKIEARKKEREKRSQDLQKLITAADTTAEQRRTERKAP
KKKL PQKKEAEKPAVPETAGIKFPDFKSAGVTLRSQRMKLPS
SVGQKKIKALEQMLLELGVELSPTPTEELVHMFNELRSDLVL
LYELKQACANCEYELQMLRHRHEALARAGVLGGPATPASGP
GPASAEPAVTEPGLGDPDKDTIIDVVGAPLTPNSRKRRESASSS
SSVKKAKKP

LAMPIRAN 10

Sekuens Protein METTL7B (UniProt ID: Q6UX53)

MDILVPLLQLLVLLLTLPLHLMALLGCWQPLCKSYFPYLM AV
LTPKSNRKMESKKRELF SQIKGLTGASGKVALLELGC GTGAN
FQFYPPGCRVTCLDPNPHFEKFLTKSMAENRHLQYERFVVAP
GEDMRQLADGSM DVVVCTLVLC SVQSPRKVLQEVRRVLRP
GGV LFFWEHVAEPYGSWAFMWQQVF EPTWKHIGDGCCLTR
ETWKDLENAQFSEIQMERQPPPLKWL PVGPHIMGKAVK

LAMPIRAN 11

Sekuens Protein EEF1A1 (UniProt ID: P68104)

MGKEKTHINIVVIGHVDSGKSTTTGHLIYKCGGIDKRTIEKFEK
EAAEMGKGSFKYAWVLDKKAERERGITIDISLWKFETSKYY
VTIIDAPGHRDFIKNMITGTSQADCAVLIVAAGVGEFEAGISK
NGQTRHALLAYTLGVKQLIVGVNKMDSTEPPYSQKRYEEIV
KEVSTYIKKIGYNPDTVAFVPISGWNGDNMLEPSANMPWFK
GWKVTRKDGNASGTTLLEALDCILPPTRPTDKPLRLPLQDVY
KIGGIGTVPVGRVETGVLKPGMVVTFAPVNVTTTEVKSVMH
HEALSEALPGDNVGFNVKNVSVKDVRRGVAGDSKNDPPM
EAAGFTAQVILNHPGQISAGYAPVLDCHTAHIACKFAELKEK
IDRRSGKKLEDGPKFLKSGDAAIVDMVPGKPMCVESFSDYPP
LGRFAVRDMRQTVAVGVKAVDKKAAGAGKVTKSAQKAQ
KAK

LAMPIRAN 12

Sekuens Protein TREX1 (UniProt ID: Q9NSU2)

MGP GARRQGRIVQGRPEMCFPPPTPLPLRILTLGHTHTPTPCS
SPGSAAGTYPTMGSQALPPGPMQTLIFFDMEATGLPFSQPKV
TELCLLAVHRCALESPPTSQGPPPTVPPPPRVVDKLSLCVAPG
KACSPAASEITGLSTAVLAAHGRQCFDDNLANLLLAFLRRQP
QPWCLVAHNGDRYDFLLQAEAMLGLTSALDGAFCVDSIT
ALKALERASSPSEHGPRKSYSLGSIYTRLYGQSPDSHTAEGD
VLALLSICQWRPQALLRWVDAHARPFGTIRPMYGV TASART
KPRPSAVTTT AHLATTRNTSPSLGESRGT KDLPVKDPGALS R
EGLLAPLGLLAILTLAVATLYGLSLATPGE

LAMPIRAN 13

Sekuens Protein TREX2 (dengan UniProt ID: Q9BQ50)

MGRAGSPLPRSSWPRMDDCGSRSRCSPTLCSSLRTCYPGRNIT
MSEAPRAETVFLDLEATGLPSVEPEIAELSLFAVHRSSLENPE
HDESGALVLPRLDKLTLCMCPERPFTAKASEITGLSSEGLAR
CRKAGFDGAVVRTLQAFLSRQAGPICLVAHNGFDYDFPLLCA
ELRRLGARLPRDTVCLDTLPALRGLDRAHSHGTRARGRQGY
SLGSLFHRYFRAEPSAAHSAEGDVHTLLLIFLHRAAELLAWA
DEQARGWAHIEPMYLPPDDPSLEA

LAMPIRAN 14

Sekuens Protein (UniProt ID: Q9Y221)

MRPLTEEETRMFEKIAKYIGENLQLLVDRPDGTYCFRLHND
RVYYVSEKIMKLAANISGDKLVSLGTFCFGKFTKTHKFR LHVT
ALDYLPYAKYKVVWIKPGAEQSFLYGNHVLKSG LGRITENTS
QYQG VVVYSMADIPLGFGVAAKSTQDCRKVDPM AIVVFHQ
ADIGEYVRHEETLT

LAMPIRAN 15

Intrepetasi Huruf pada sekuens Asam Amino

<u><i>Asam Amino Alifatik Sederhana</i></u>	<u><i>Asam Amino Hidroksi – Alifatik</i></u>	<u><i>Asam Amino Dikarboksilat (asam)</i></u>	<u><i>Amida</i></u>
<p>Glisin (Gly, G)</p> <p>Alanin (Ala, A)</p> <p>Valin (Val, V)</p> <p>Leusin (Leu, L)</p> <p>Isoleusin (Ile, I)</p>	<p>Serin (Ser, S)</p> <p>Treonin (Thr, T)</p>	<p>Asam Aspartat (Asp, D)</p> <p>Asam Glutamat (Glu, E)</p>	<p>Asparagin (Asn, N)</p> <p>Glutamin (Gln, Q)</p>
<u><i>Asam Amino Basa</i></u>	<u><i>Asam Amino dengan Sulfur</i></u>	<u><i>Prolin</i></u>	<u><i>Asam Amino Aromatik</i></u>
<p>Lisin (Lys, K)</p> <p>Arginin (Arg, R)</p> <p>Histidin (His, H) (memiliki gugus siklik)</p>	<p>Sistein (Cys, C)</p> <p>Metionin (Met, M)</p>	<p>Prolin (Pro, P) (memiliki gugus siklik)</p>	<p>Fenilalanin (Phe, F)</p> <p>Tirosin (Tyr, Y)</p> <p>Triptofan (Trp, W)</p>