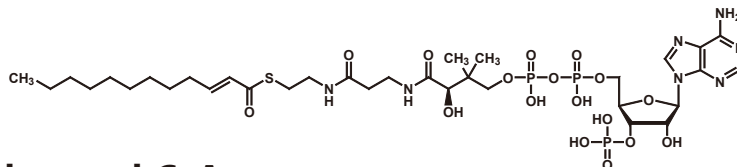


Anti-tuberculosis Research Reagents

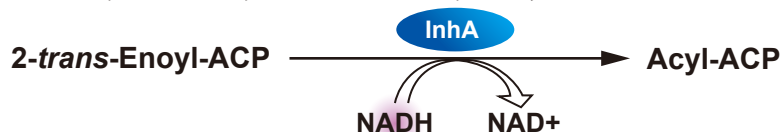
Substrate for enoyl-ACP reductase (InhA)



New 2-*trans*-Dodecenoyl-CoA

5mg / 25mg [D5661]

A part of fatty acid biosynthetic pathway in *Mycobacterium tuberculosis*



2-*trans*-Dodecenoyl-CoA (DD-CoA) acts on enoyl-ACP reductase (InhA) as one of 2-*trans*-enoyl-ACP, a substrate for InhA in the synthesis pathway (above) of fatty acids which constitute the cell wall of *M. tuberculosis*. Therefore, it has been reported that InhA inhibition assay by measuring InhA's reducing activity of DD-CoA can be applied for screening of anti-tuberculosis agent candidates.

Application

Screening of anti-tuberculosis agent candidates

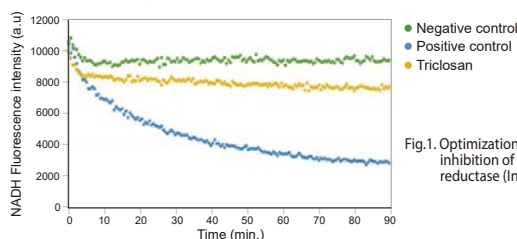
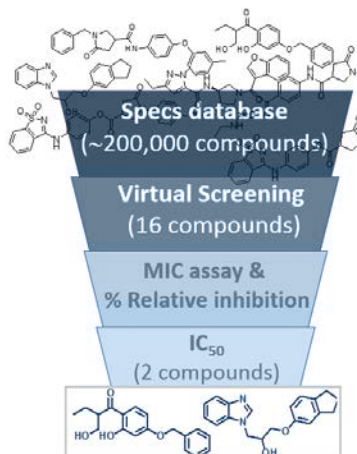


Fig.1. Optimization of DD-CoA concentration for inhibition of NADH-dependent enoyl-ACP reductase (InhA) of *M. tuberculosis*

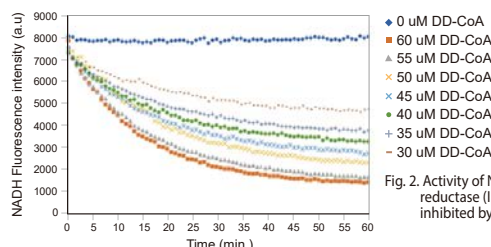


Fig. 2. Activity of NADH-dependent enoyl-ACP reductase (InhA) of *M. tuberculosis* inhibited by Triclosan inhibitor

*Image data and every kind of information have been provided by Dr. Pungpo.

References P. Pungpo, et al., *J. Chem. Inf. Model.* **2020**, *60*, 226. DOI: <https://doi.org/10.1021/acs.jcim.9b00918>

Other anti-tuberculosis research reagents

Ethionamide
Isoniazid
Pyrazinamide
Streptomycin Sulfate
Rifampicin
Triclosan
(*S,S*)-2,2'-(1,2-Ethanediyldiimino)bis-1-butanol Dihydrochloride
Resazurin (Ready-to-use solution) [for Cell proliferation assay]

5g / 25g [E0695]
25g / 100g / 500g [I0138]
25g [P0633]
25g / 500g [S0585]
5g / 25g [R0079]
25g / 100g / 500g [T1872]
5g / 25g [E1011]
25mL [R0195]

References H. Marrakchi, G. Lanéelle, A. K. Quémar, *Microbiology* **2000**, *146*, 289. DOI: <https://doi.org/10.1099/00221287-146-2-289>
I. B. Vasconcelos, L. A. Basso, D. S. Santos, *J. Braz. Chem. Soc.* **2010**, *21*, 1503. DOI: <https://doi.org/10.1590/S0103-50532010000800014>
D. J. Shaw, K. Robb, B. V. Vetter, M. Tong, V. Molle, N. T. Hunt, P. A. Hoskisson, *Sci. Rep.* **2017**, *7*, 4714. DOI: <https://doi.org/10.1038/s41598-017-05042-4>

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