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## Bromotyrosine-derived alkaloids from the sponge Acanthodendrilla sp.

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 $\begin{array}{l} \textbf{B} is a system of the CH_2Cl_2/MeOH extract of the Thai marine sponge A canthodendrilla sp. resulted in the isolation of six bromotyrosine-derived alkaloids; aerothionin (1), homoaerothionin (2), 2-hydroxy-3,5-dibromo,4-methoxyphenylacetamide (3), 2,4-cyclohexadiene-1-acetamide-3,5-dibromo-1,6-dihydroxy-4-methoxy (4), 11-oxoaerothionin (5), and 11,19-dideoxyfistularin (6). The structures of the isolated compounds were identified on the basis of detailed spectroscopic analysis. The compounds were tested for the acetylcholinesterase-inhibiting activity, and 3 showed the best acetylcholinesterase-inhibiting activity (92.0% at 0.1 mg/mL). \end{array}$ 

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