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Correction: An activity-based probe for antimicrobial target DXP synthase, a thiamin diphosphate-dependent enzyme

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KEYWORDS

1-deoxy-D-xylulose 5-phosphate synthase, activity-based probe, alkyl acetylphosphonate, thiamin-dependent enzyme, antimicrobial target, vitamin biosynthesis, isoprenoid biosynthesis, bacterial central metabolism

A Correction on

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In the published article, there was an error. The concentrations of click reaction components were inadvertently reported as 10-fold higher than actually used for labeling experiments using purified recombinant DXPS.

A correction has been made to “4.4 General protocol for DXPS labeling by 1”. This sentence previously stated:

“Solutions were cooled to ambient temperature, and a 7.5x CuAAC reaction stock (4 μ L, prepared immediately prior to addition) was added to achieve final concentrations of 1 mM tris ((1-benzyl-4-triazolyl)methyl)amine (TBTA), 10 mM CuSO₄, and 10 mM tris(2-carboxyethyl)phosphine (TCEP).”

The corrected sentence appears below:

“Solutions were cooled to ambient temperature, and a 7.5x CuAAC reaction stock (4 μ L, prepared immediately prior to addition) was added to achieve final concentrations of 0.1 mM tris ((1-benzyl-4-triazolyl)methyl)amine (TBTA), 1 mM CuSO₄, and 1 mM tris(2-carboxyethyl)phosphine (TCEP).”

In the published article, there was an error. The concentrations of click reaction components were inadvertently reported as 10-fold higher than actually used in experiments to label DXPS in bacterial lysate.

A correction has been made to “4.6 Detection of DXPS in complex bacterial lysate”, subsection “4.6.2 Labeling of DXPS by 1 in lysate”, paragraph 1. This sentence previously stated:

“A 7.5x CuAAC reaction stock (1 mM TBTA, 10 mM CuSO₄, and 10 mM TCEP) was prepared and 4 μ L was added to each sample followed by addition of TAMRA-azide (6 μ L of a 5 mM stock in DMSO).”

The corrected sentence appears below:

“A 7.5× CuAAC reaction stock was prepared and 4 μL was added to each sample (to achieve final concentrations of 0.1 mM TBTA, 1 mM CuSO₄, and 1 mM TCEP), followed by addition of TAMRA-azide (6 μL of a 5 mM stock in DMSO).”

The original article has been updated.

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