

Copper(II)-THPTA catalytic buffer, 1.5x

<http://hk.lumiprobe.com/p/protein-labeling-buffer-thpta>

Catalytic buffer is suitable for coupling of azide- or alkyne-modified protein with alkyne- or azide- bearing dye via Cu(I)-catalyzed azide-alkyne cycloaddition ([CuAAC](#)). THPTA ligand accelerates the reaction rate due to the stabilization of a catalytically active Cu (I). Moreover, the presence of water-soluble THPTA allows the protein labeling to be run in aqueous solution and, by chelating free copper, minimizes the generation of ROS (reactive oxygen species) and undesired damage of proteins. Aminoguanidine prevents connections of reactive aldehydes, which are products of dehydroascorbate hydrolysis, with arginine, N-terminal cysteine, and lysine side-chains. Ready-to-use 1.5x buffer provides all the necessary reagents to perform the CuAAC reaction, except a reagent for the reduction of Cu (II) into catalytically active Cu (I). As a reducing agent we recommend [ascorbic acid](#).

Buffer composition: Cu (II), triethylammonium acetate buffer pH 6.8, THPTA ligand, aminoguanidine

儲存条件:

法律声明: 本產品僅供研究目的提供和銷售。本產品並未經過食品、藥品、醫療器械、化妝品等領域的安全性和效力測試, 且未經明示或暗示授權用於其他任何用途, 包括但不限於體外診斷、人類或動物用途, 以及商業用途。