

## Metabolic Labeling of Alkynes using BiotinAz using CuAAC

Prepare stock solutions of the following reagents in PBS.

	Reagents	MW (g/mol)	C <sub>Stock</sub> (in PBS)	
٠	CuSO <sub>4</sub>	249.70	100mM	(~1 month shelf life)
٠	Sodium ascorbate	198.11	10mM	(make fresh)
٠	THPTA	434.50	50mM	(~1 month shelf life)
•	BiotinAz	444.55	50mM	(~1 month shelf life)

Prepare stock solutions of the following reagents in PBA.

Streptavidin-PE in PBA 5µg/ml (PBA = 500ml PBS, 5gram BSA, 100mg sodium azide)

**Reaction buffer** (Prepare freshly and incubate 5min before adding to cells) Add 10ml PBS Add 25μl of CuSO<sub>4</sub> stock Add 20μl THPTA stock Add 20μl BiotinAz

- 1. Incubate cells 3d with medium containing sugars
- 2. Collect cells and wash in 2x PBS
- 3. Add 95µl reaction buffer (see above)
- 4. Add 5µl sodium ascorbate (10mM stock in PBS)
- 5. Incubate 10 minutes at 37°C
- 6. Wash 3x with PBS + 1% BSA (no sodium azide!!!)
- 7. Add  $0.5\mu$ g/ml Streptavidin-PE in PBA (40  $\mu$ l) for 20min at 4°C
- 8. Wash 3x with PBS + 0.1% BSA
- 9. Resuspend in PBS + 0.1% BSA and acquire