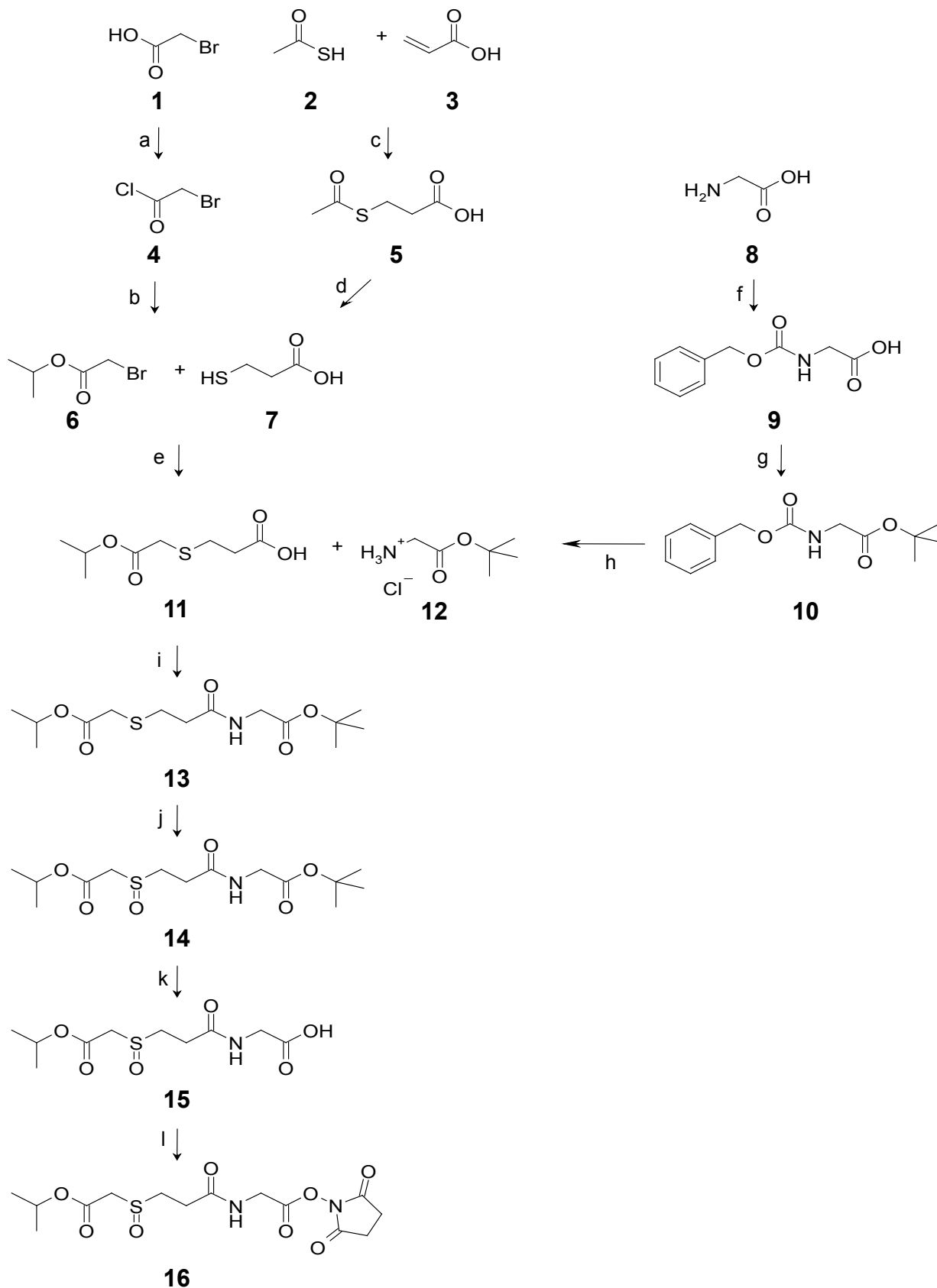


channel	-1 (%)	+1 (%)
5	2.43	0
4	2.08	0
3	1.63	0.115
2	0.9	0.16
1	0.49	0.29
0	0.16	0.5

Supplementary Table 1. Values used for the correction of isotope impurities



Supplementary Note 1. Synthesis route of EASI-tag 6-plex

EASI-tag 6-plex reagent (**16**) was synthesized in multiple steps starting from compounds **1,2,3** and **8**: **a**) SOCl_2 ; **b**) *i*PrOH; **c**) Δ ; **d**) H_2O , NH_4OH ; **e**) NEt_3 , THF; **f**) Benzylchloroformate, NaOH; **g**) H_2SO_4 , isobutene, DCM; **h**) H_2 , Pd/C, EtOAc, HCl, dioxane; **i**) EDC, DIPEA, HOBT, DCM; **j**) *m*-CPBA, CHCl_3 ; **k**) TFA, DCM; **l**) *N,N*-Disuccinimidylcarbonate, DIPEA, THF, DMF.

m-CPBA, meta-chloroperbenzoic acid; DCM, dichloromethane; DIPEA, N,N-diisopropylethylamine; DMF, dimethylformamide; EDC, 1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide; HOBT, 1-hydroxybenzotriazole; THF tetrahydrofuran; TFA, trifluoroacetic acid.