# Biotin TS Ethylenediamine

TS biotin ethylenediamine (Biotin ethylenediamine thiosulfate, sodium salt) is a highly selective thiol labeling probe. Similar to the MTS group, TS (thiosulfate) group is capable of reacting with thiols at nearly neutral pH.

**Product attributes**

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| **Conjugation** | Biotin, Biotin-X, Biotin-XX |

## Product Description

TS biotin ethylenediamine (Biotin ethylenediamine thiosulfate, sodium salt) is a highly selective thiol labeling probe. Similar to the MTS group, TS (thiosulfate) group is capable of reacting with thiols at nearly neutral pH. However, unlike the MTS group , which is neutral, TS is negatively charged and thus probes bearing a TS group are ideal for specifically labeling thiols exposed at the exterior cell surface because charged probes are less likely to enter cells.

It's available in 3 variations: Biotin, Biotin-X, and Biotin-XX. The X and XX spacer should facilitate the interaction between biotin and avidin or streptavidin.

**TS Biotin ethylenediamine**

- Biotin ethylenediamine thiosulfate, sodium salt
- $C_{14}H_{23}N_4NaO_6S_3$
- MW: 462.54
- Off-white solid soluble in DMSO or water
- Store desiccated at -20°C

**TS Biotin-X ethylenediamine**

- Biotin-X ethylenediamine thiosulfate, sodium salt
- $C_{20}H_{34}N_5NaO_7S_3$
- MW: 575.7
- Off-white solid soluble in DMSO or water
- Store desiccated at -20°C

**TS Biotin-XX ethylenediamine**

- Biotin-XX ethylenediamine thiosulfate, sodium salt
- $C_{26}H_{45}N_6NaO_8S_3$
- MW: 688.86
- Off-white solid soluble in DMSO or water
- Store desiccated at -20°C