



Product Name:

HaloTag DBCO Ligand

Catalog Number:

T01228

Description:

HaloTag is a self-labeling protein derived from the haloalkane dehalogenase DhaA from *Rhodococcus rhodochrous*. Its active site reacts with chloroalkane substrates to form an irreversible bond. The covalent linkage between the HaloTag ligand and HaloTag protein enables rapid isolation and purification. HaloTag DBCO Ligand can be used to attach DBCO moiety to protein. DBCO has been extensively used in copper-free click chemistry.

Physical and Chemical Properties:

Molecular Formula: C₂₉H₃₅CIN₂O₄

Molecular Weight: 511.06

Physical Appearance: Light Yellow Solid

Purity: ≥95%

Optical Properties:

Abs/Em Maxima: n/a.

Solubility:

DMSO, DMF

Storage:

Store at -20°C and protected from light.

Shelf Life:

12 months after the date of delivery.

References:

Wilhelm, J., Kuhn, S., Tamawski, M., Gotthard, G., Tunnermann, J., Tanzer, T., Karpenko, J., Mertes, N., Xue, L., Uhrig, U., Reinstein, J., Hiblot, J., & Johnsson, K. (2021). Kinetic and Structural Characterization of the Self-Labeling Protein Tags HaloTag7, SNAP-tag, and CLIP-tag. *Biochemistry*, 60(33), 2560–2575. <https://doi.org/10.1021/acs.biochem.1c00258>

Caution:

For Research Use Only.
