



Product Name:

HaloTag TMR Ligand

Catalog Number:

T01224

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 TMR Ligand can be used for protein fluorescent labeling. Excitation maximum = 555 nm; emission maximum = 585 nm.

Physical and Chemical Properties:

Molecular Formula: C₃₅H₄₂ClN₃O₆

Molecular Weight: 636.19

Physical Appearance: Dark Purple Solid

Purity: ≥95%

Optical Properties:

Abs/Em Maxima: 555/585 nm.

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.
