



Product Name:

HaloTag DOTA Ligand

Catalog Number:

T01234

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 DOTA Ligand can be used to attach DOTA moiety to protein. DOTA has been used in many different diagnostic and therapeutic applications, such as MRI contrast agents, PET and SPECT imaging agents, and radiotherapeutic agents.

Physical and Chemical Properties:

Molecular Formula: C₂₆H₄₈CIN₅O₉

Molecular Weight: 610.15

Physical Appearance: White 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.
