



**Product Name:**

SNAP-DOTA

**Catalog Number:**

T01235

**Description:**

SNAP-tag is a self-labeling protein derived from human O<sup>6</sup>-alkylguanine-DNA-alkyltransferase. SNAP-tag reacts covalently with O<sup>6</sup>-benzylguanine derivatives. SNAP-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: C<sub>29</sub>H<sub>40</sub>N<sub>10</sub>O<sub>8</sub>

Molecular Weight: 656.701

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.