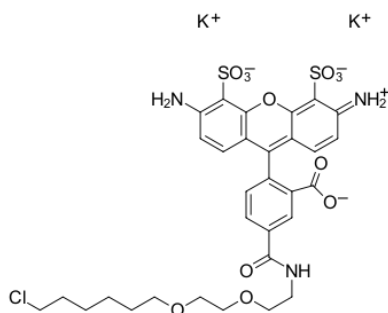


AF 488 HTag ligand

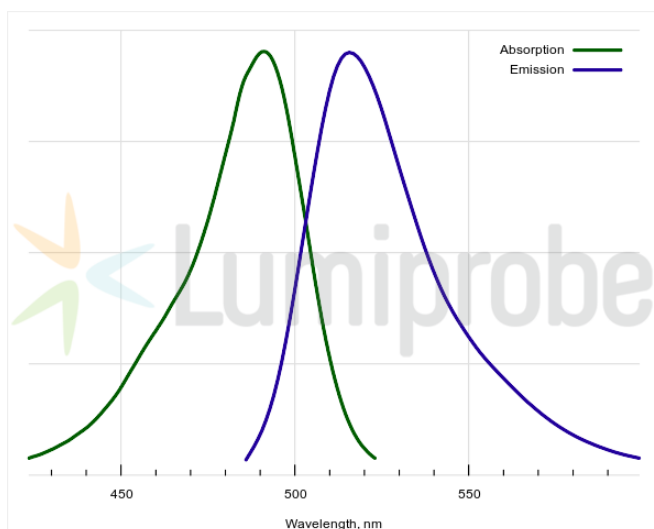
<http://www.lumiprobe.com/p/af-488-halotag-5>

AF 488 HTag is a highly specific fluorescent ligand designed for the covalent and irreversible labeling of HaloTag[®] fusion proteins in live cells, cell lysates, and fixed samples.

The HaloTag[®] system is based on a genetically engineered bacterial haloalkane dehalogenase that forms a covalent bond with synthetic chloroalkane ligands, making it specific and rapid. AF 488 HTag conjugate contains a chloroalkane anchor linked to a bright AF 488 fluorophore. When added to cells or samples expressing a HaloTag[®] fusion protein, the substrate permeates the membrane and permanently binds to the target protein. The complete absence of cross-reactivity with endogenous mammalian proteins guarantees an exceptional signal-to-noise ratio.



Structure of AF 488 HTag ligand



Absorption and emission spectra of AF 488

General properties

Appearance:	red solid
Molecular weight:	816.39
Molecular formula:	C ₃₁ H ₃₂ ClK ₂ N ₃ O ₁₂ S ₂
Solubility:	DMSO, water
Quality control:	NMR ¹ H and HPLC-MS (95+%)
Storage conditions:	24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

Spectral properties

Excitation/absorption maximum, nm:	495
ε, L·mol ⁻¹ ·cm ⁻¹ :	71800
Emission maximum, nm:	519
Fluorescence quantum yield:	0.91
CF ₂₆₀ :	0.16
CF ₂₈₀ :	0.10