

ATTO 680 (A680)

Overview

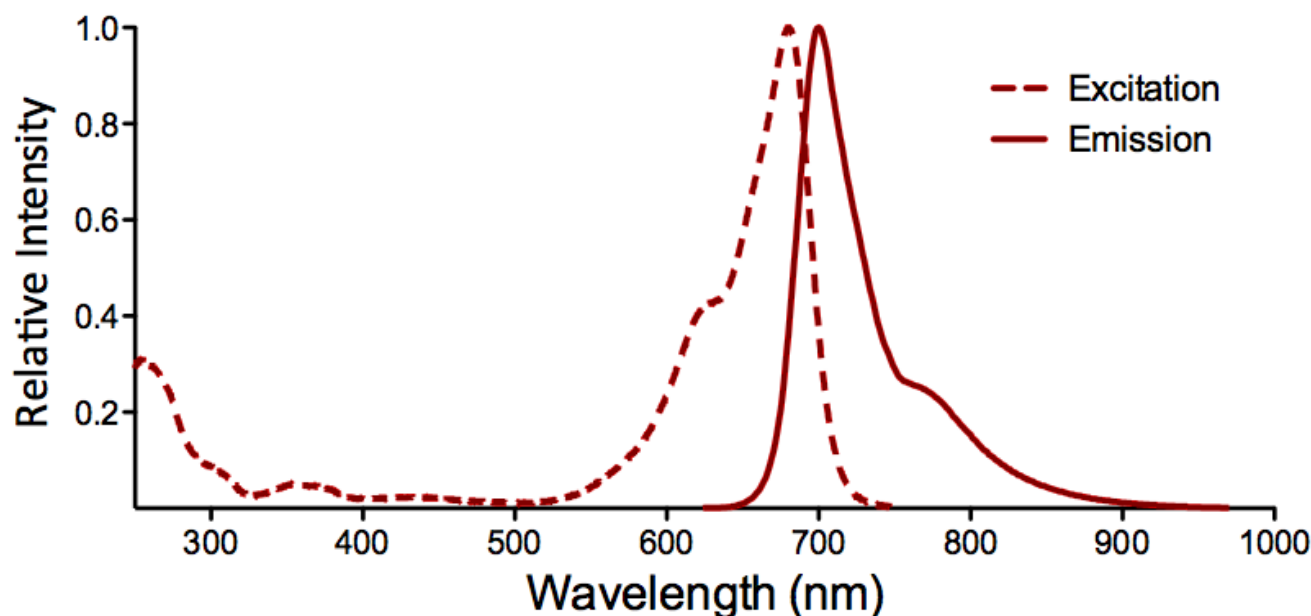
Product Name	ATTO 680 (A690)
Size	To be used in conjunction with 100 or 200 µg Antibodies
Molecular Weight	631 g/mol

Properties

- High fluorescence yield
- Excellent thermal and photostability
- Electron transfer quenched of fluorescence by guanine, tryptophan, etc.
- Very hydrophilic
- Good solubility in polar solvents
- Zwitterionic dye

Optical Properties

Maximum Excitation Wavelength (λ_{ex})	680 nm
Maximum Emission Wavelength (λ_{em})	700 nm
Extinction Coefficient (ϵ_{max})	1.25×10^5
Fluorescence Quantum yield (Φ_f)	0.30
Fluorescence Decay Time (τ_{fl})	1.7 ns
Brightness	37.5
Laser Line	633 - 676 nm
Filter Set	Cy [®] 5.5



Please Note: All products are for *in vitro* research use only and are not intended for use in humans or animals.

It is possible that the conjugate tag may bind in the paratope of the antibody, thereby limiting binding of the antibody to the antigen. Although this is unlikely, it could affect the ability of the antibody to bind to the antigen in various species and applications. As we cannot control the binding of the conjugate to the antibody, there is no way to confirm or guarantee the location of the antibody tag.

* The applications listed are general applications for the conjugate label alone. It does not guarantee that antibody-conjugate combinations have been tested for use in the listed applications.

Material Safety Data Sheet

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The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

Physical Data

This product consists of freeze-dried solid.
The physical properties of this product have not been investigated thoroughly.

Fire and Explosion Hazard and Reactivity Data

This product is not flammable. There are no anticipated hazardous decomposition products associated with this material. No specific fire fighting procedure given.

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.