Amytracker

General Information

Amytracker are fluorescent tracer molecules for high-quality visualization of protein aggregates.

The molecules become vividly colorful – highly fluorescent - when bound to a target in a sample. Targets are amyloids or protein aggregates containing amyloid fibrils and proto-fibrils. Therefore, using **Amytracker**, you can achieve reliable fluorescent staining of early, pre-fibrillar states of amyloids arising from a variety of amyloidogenic proteins or peptides in tissues from a wide range of species and perform fibrillation assays and spectrophotometric detection of protein aggregates in liquid samples.

Amytracker molecules are non-toxic and are readily taken-up when applied to cells in culture. Further, they are photo- and thermostable and allow for easy handling in any application. Our *ex vivo* products will simplify your life when performing staining of tissue sections, live-cell imaging or fibrillation assays. The *ex vivo* products are available in aliquots of 50 µl, 100 µl, 150 µl or 200 µl. Please, contact us to find out more about **Amytracker** for *in vivo* use.

Quick Facts

Amytracker fluorescent tracer molecules are:

- provided as *ex vivo* variant with 1 mg/ml concentration in volumes of 50 µl, 100 µl, 150 µl and 200 µl and as a **Mix&Try**; Kit with 5x 10 µl
- readily taken up into cells and tissues
- *ex vivo* variants are diluted 1000-fold for staining of tissue sections and 500-fold for live-cell imaging
- non-toxic
- photo- and thermostable
- fast
- accurate

Quickstart Guide

Amyloid staining in tissue sections (Protocol I)

- use fixed- or fresh tissue
- dilute **Amytracker** 1:1000 in PBS (pH 7.4)
- apply generously to sample
- incubate 5-30 min
- wash with PBS (optional)
- image at recommended excitation/emission

Live-cell imaging (Protocol III)

- dilute **Amytracker** 1:500 in cell culture medium or PBS (pH 7.4)
- apply generously to sample
- incubate 30 min
- wash with cell culture medium or PBS (optional)
- image at recommended excitation/emission

Storage

- Store **Amytracker** at 4°C.
- Use the opened vial within 12 month.

Note

- **Amytracker** is for research use only.
- **Amytracker** is not for diagnostic use or use in humans.
- **Amytracker** is not for resale.

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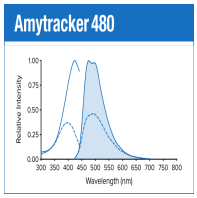
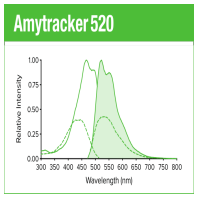
Amytracker Product Series



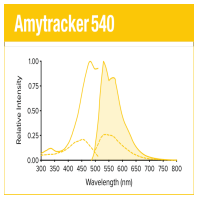
Amytracker 480 is our blue fluorescent tracer molecule for staining of amyloids and other protein aggregates.

The fluorescence of **Amytracker 480** is visualized using standard fluorescence microscopy equipment (confocal microscope, spectroscope or spectrophotometer). Excitation is achieved using the 405 nm laser line, and emission can be detected at 480 nm using the standard DAPI filter set. The optical spectrum of **Amytracker 480** also allows custom settings to be applied within an excitation range of 405-458 nm and a detection range of 470-550 nm.



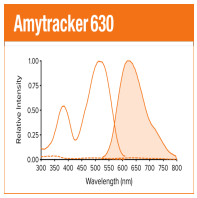
Amytracker 520 is our green fluorescent tracer molecule for staining of amyloids and other protein aggregates.

The fluorescence of **Amytracker 520** is visualized using standard fluorescence microscopy equipment (confocal microscope, spectroscope or spectrophotometer). Excitation is achieved using the 458 or 488 nm laser lines, and emission can be detected using the standard FITC or GFP filter set. The optical spectrum of **Amytracker 520** also allows custom settings to be applied within an excitation range of 405-488 nm and a detection range of 500-600 nm.



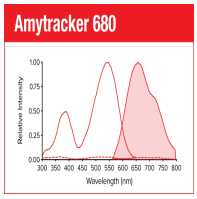
Amytracker 540 is our green/yellow fluorescent tracer molecule for staining of amyloids and other protein aggregates.

The fluorescence of **Amytracker 540** is visualised using standard fluorescence microscopy equipment (confocal microscope, spectroscope or spectrophotometer). Excitation is achieved using the 440 nm laser line and emission can be detected at 540 nm using the standard FITC, GFP or YFP filter set. The optical spectrum of **Amytracker 540** also allows custom settings to be applied, using an excitation range of 430-500 nm and a detection range of 530-600 nm. With excellent cellular uptake properties, we particularly recommend **Amytracker 540** for live-cell imaging and *in vivo* studies.



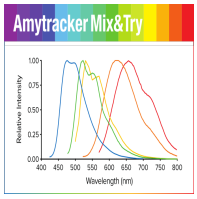
Amytracker 630 is our orange fluorescent tracer molecule for staining of amyloids and other protein aggregates.

The fluorescence of **Amytracker 630** is visualised using standard fluorescence microscopy equipment (confocal microscope, spectroscope or spectrophotometer). Excitation is achieved using the 488 or 514 nm laser lines, and emission can be detected using the standard PI, Cy3, TxRed, mCherry or Cy3.5 filter sets. The optical spectrum of **Amytracker 630** also allows custom settings to be applied within an excitation range of 458-514 nm and a detection range of 600-650 nm. With exceptionally high signal-to-noise ratio and spectral properties that are clearly distinguishable from biological autofluorescence, we recommend **Amytracker 630** for fibrillation assays, live-cell imaging and *in vivo* studies.



Amytracker 680 is our red fluorescent tracer molecule for staining of amyloids and other protein aggregates.

The fluorescence of **Amytracker 680** is visualised using standard fluorescence microscopy equipment (confocal microscope, spectroscope or spectrophotometer). Excitation is achieved using the 561 nm laser line, and emission can be detected at 680 nm using the standard PI, mCherry or Cy3.5 filter set. The optical spectrum of **Amytracker 680** also allows custom settings to be applied, using an excitation range of 530-565 nm and a detection range of 600-800 nm. With exceptionally high signal-to-noise ratio and spectral properties that are clearly distinguishable from biological autofluorescence, we recommend **Amytracker 680** for fibrillation assays, live-cell imaging and *in vivo* studies.



Amytracker Mix&Try is our Test Kit for Getting Started

Amytracker Mix&Try contains 10 µl of each fluorescent tracer molecule available in the **Amytracker** series. Using all these different options will allow you to select the best **Amytracker** for your experiment.

Following fluorescent tracer molecules are included in the **Amytracker Mix&Try** Kit:

- **Amytracker 480** (Excitation: 405-458 nm, Emission: 470–550 nm, Emax = 480 nm)
- **Amytracker 520** (Excitation: 405-488 nm, Emission: 500-600 nm, Emax = 520 nm)
- **Amytracker 540** (Excitation: 430-500 nm, Emission: 530-600 nm, Emax = 540 nm)
- **Amytracker 630** (Excitation: 458-514 nm, Emission: 600-650 nm, Emax = 630 nm)
- **Amytracker 680** (Excitation: 530-565 nm, Emission: 600-800 nm, Emax = 680 nm)

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