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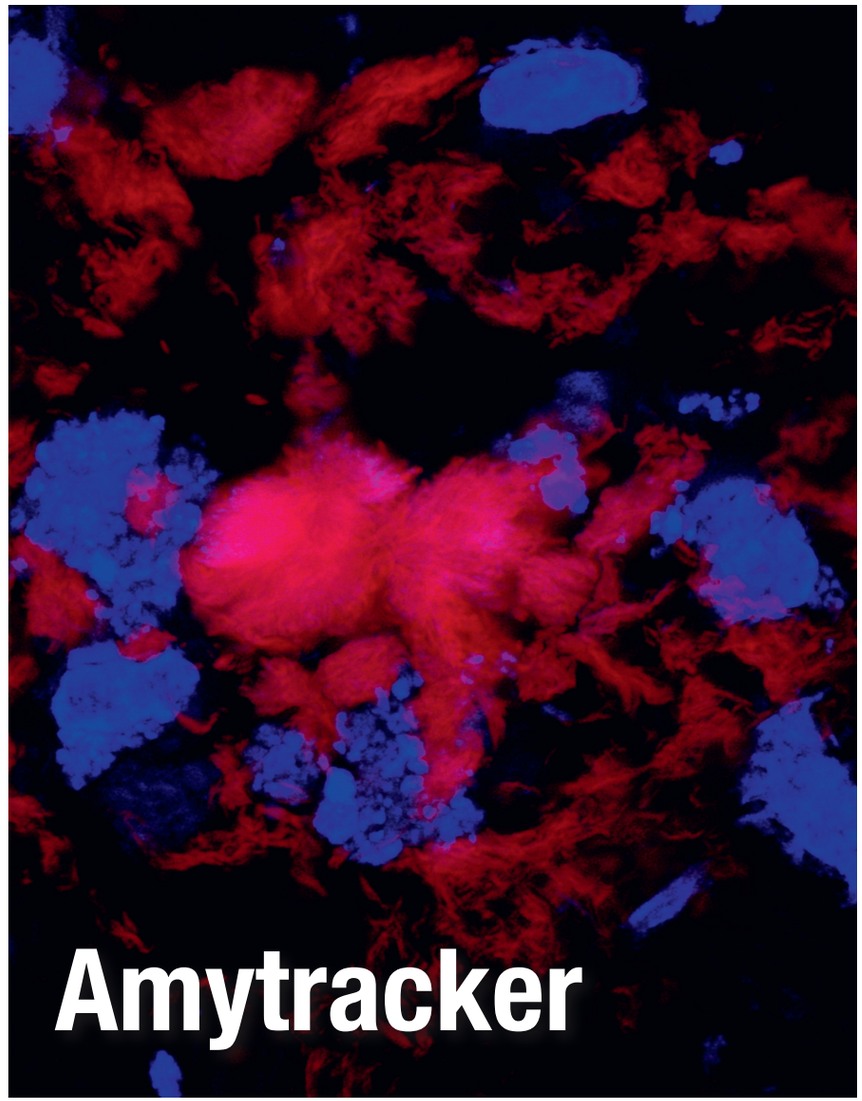


Super-resolution confocal imaging of neurofibrillary tangles (NFTs) in the temporal lobe of an Alzheimer's disease human brain. DNA stained with DAPI (blue), protein aggregates stained with **Amytracker 680** (red).

Optotracers – fluorescent tracer molecules for high-quality visualization of macromolecules such as amyloids and other protein aggregates

Find amyloids and other protein aggregates with Amytracker

What is an optotracer?

Amytracker optotracers are fluorescent tracer molecules that become vividly colorful – highly fluorescent – when bound to a target in a sample.

Targets include, but are not limited to amyloids or protein aggregates containing beta-amyloid fibrils and proto-fibrils.

Key benefits of Amytracker

- Binds to amyloid fibrils with a minimum of 8 repetitive beta-sheets, including premature fibrils, enabling studies of amyloid formation also in non-thioflavinic species.
- High signal-to-noise ratio of bound vs. unbound optotracer
- Applicable in tissue sections, live-cell imaging and fibrillation assays

Product variants

Amytracker optotracer variants cover the visible spectrum from blue to red/far-red, available in five variants for peak emission: 480 nm, 520 nm, 540 nm, 630 nm, 680 nm, all detectable using standard fluorescence microscopy and spectrophotometry.

Product Information

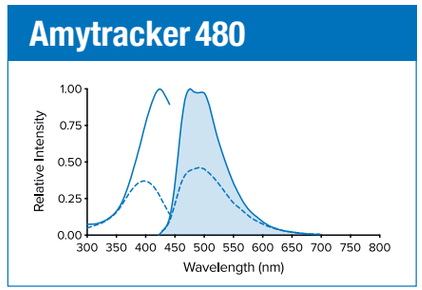
All Amytracker variants are available in volumes between **10 - 200 µl**.

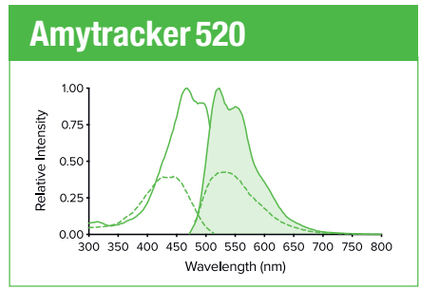
The standard delivery size is 50 µl and larger volumes are delivered in multiple 50 µl vials with a volume discount. For testing which variant is best suited for your application, we recommend the **Amytracker Mix&Try** kit containing 10 µl of each variant.

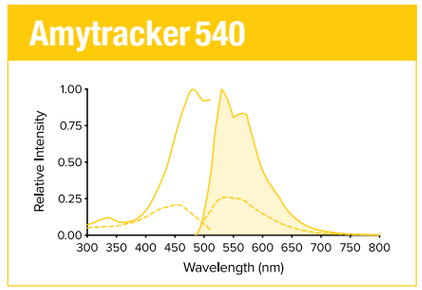
The standard Amytracker product concentration is 1 mg/mL in aqueous solvent. Alternatively, we provide Amytracker as a solid or dissolved in DMSO. For further information or to place an order, please contact us via **ebbabiotech.com** or send a request to **info@ebbabiotech.com**

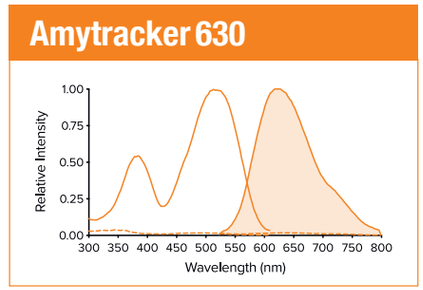
> "We are studying Alzheimer's disease in mouse models and use a variety of anti-amyloid-beta antibodies and traditional dyes to look at amyloid-beta aggregation. Amytracker 520 gave a very clean staining with high signal to noise.
>
> It was easy to use as a part of routine immunohistochemistry and made for a great complement to Thioflavin S staining to detect dense-core plaques with much less background."
>
> *M. Garcia, M.Sc. Molecular Biology, Medical Biology, doctoral student, Sweden*

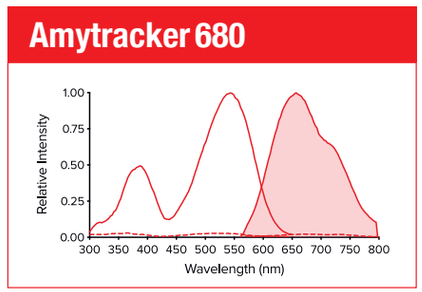
Amytracker is available in five variants from blue to red/far-red: 480 nm, 520 nm, 540 nm, 630 nm, 680 nm, all detectable using standard fluorescence microscopy and spectrophotometry.

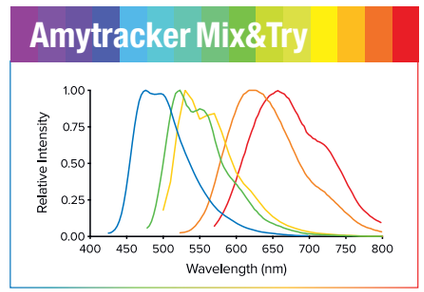












Applications

Achieve reliable fluorescent staining of early, pre-fibrillar states of amyloids from amyloidogenic proteins or peptides in tissues from a wide range of species.

When **Amytracker** molecules are not bound to a target, they exhibit an extremely low background fluorescence. Therefore, **Amytracker** tracer molecules are suitable for fibrillation assays and spectrophotometric detection.

The **Amytracker** molecules are non-toxic and readily taken up into cells, and therefore exceptionally well suited for live-cell imaging or applications in fresh tissue.

Fast · Simple · Stable · Non-toxic · Accurate