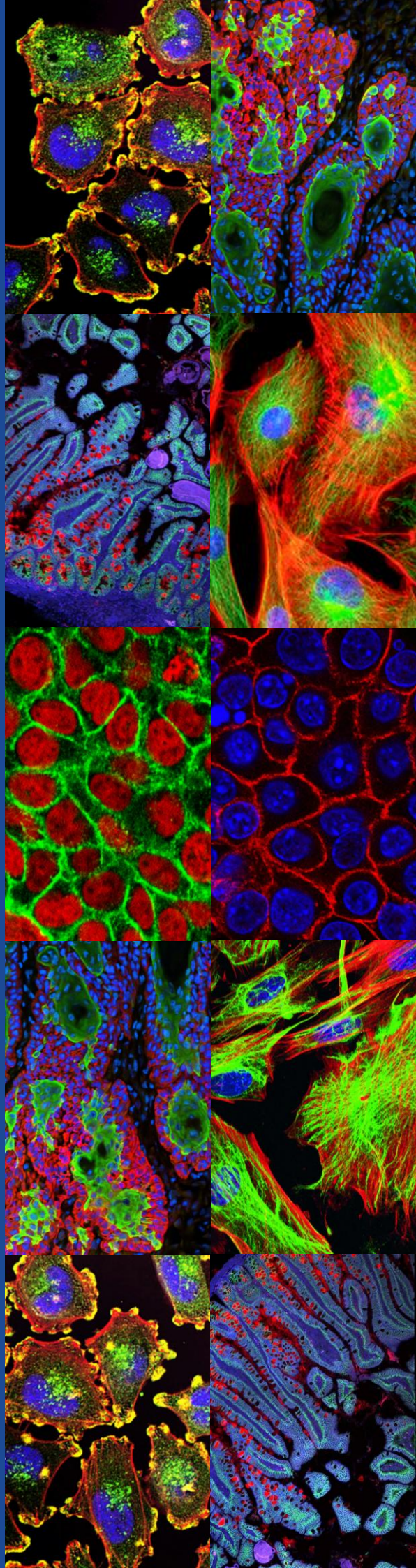


Fluorescent Dyes

Bright up your
research



AF Fluorescent Dyes

AF Dyes is a series of sulfonated fluorescent dyes for efficient labeling of various biomolecules such as nucleic acids, proteins, antibodies, and lipids. AF Dyes are structurally identical to Alexa Fluor™ dyes and offer identical brightness, photostability, and pH tolerance for a variety of imaging applications.

Exceptional performance

Structurally identical to Alexa Fluor™ dyes and provide same brightness and photostability at a significantly lower cost.

High compatibility

Water-soluble dyes with high pH stability (4–10) suitable for labeling of biomolecules or small ligands at various conditions.

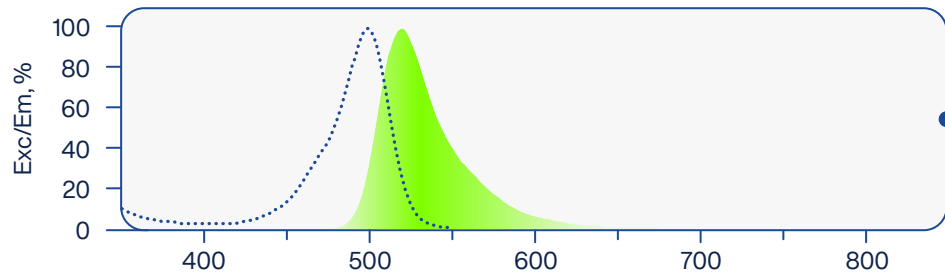
Various modifications

Available in multiple chemical forms, allowing you to select the option which is best suited for your specific application.

AF 488 Dye

AF 488 dye is a bright green fluorescent dye structurally identical to Alexa Fluor™ 488.

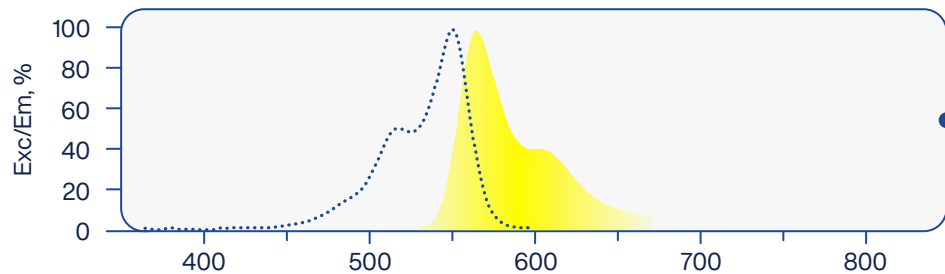
Excitation: 490 nm
Emission: 525 nm



AF 555 Dye

AF 555 dye is a bright yellow fluorescent dye structurally identical to Alexa Fluor™ 555.

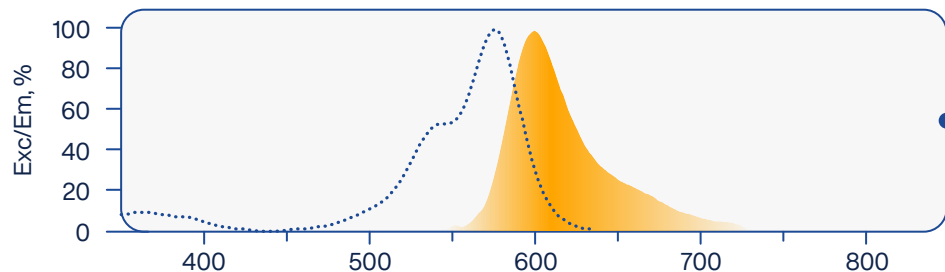
Excitation: 552 nm
Emission: 566 nm



AF 568 Dye

AF 568 dye is a bright orange fluorescent dye structurally identical to Alexa Fluor™ 568.

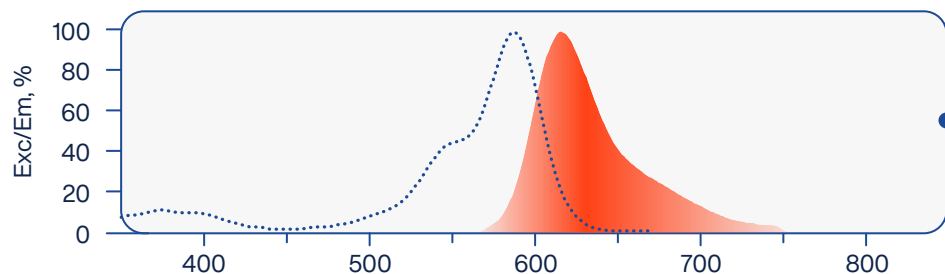
Excitation: 579 nm
Emission: 603 nm



AF 594 Dye

AF 594 dye is a bright red fluorescent dye structurally identical to Alexa Fluor™ 594.

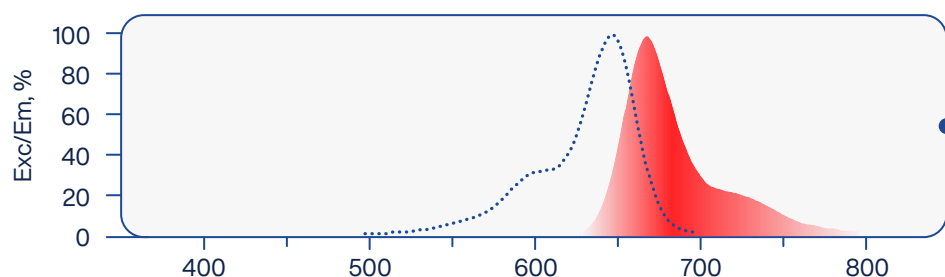
Excitation: 590 nm
Emission: 618 nm



AF 647 Dye

AF 647 dye is a bright red fluorescent dye structurally identical to Alexa Fluor™ 647.

Excitation: 650 nm
Emission: 671 nm



Other Fluorescent Dyes

We offer a panel of other fluorescent dyes that are recognized as gold standard in labeling and imaging applications. Fluorescent dyes are available in diverse chemical forms, making them ideal for labeling a wide variety of small ligands and biomolecules.

Reliable performance

txRED, Cyanines 5 and 5.5 are common fluorescent dyes routinely used for labeling of nucleic acids and membrane proteins.

Exceptional photostability

AT 488 and 590 dyes provide exceptional photostability and quantum yield for single-molecule applications.

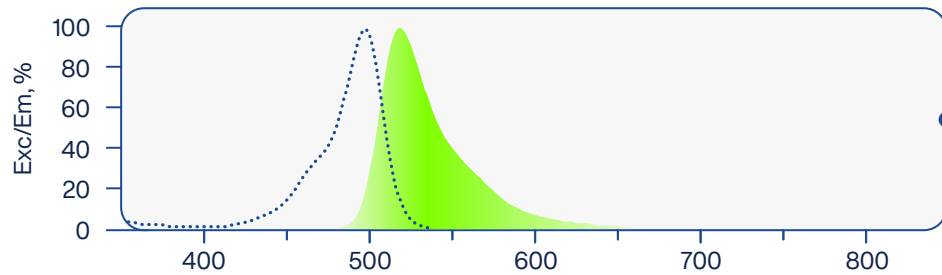
Various modifications

Available in multiple chemical forms, allowing you to select the option which is best suited for your specific application.

AT 488 Dye

AT 488 dye is a green fluorescent dye structurally identical to Atto™ 488.

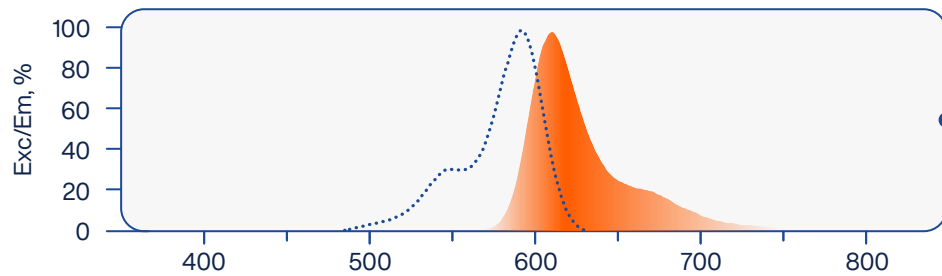
Excitation: 499 nm
Emission: 520 nm



txRED Dye

txRED dye is an orange fluorescent dye structurally identical to Texas Red-X™.

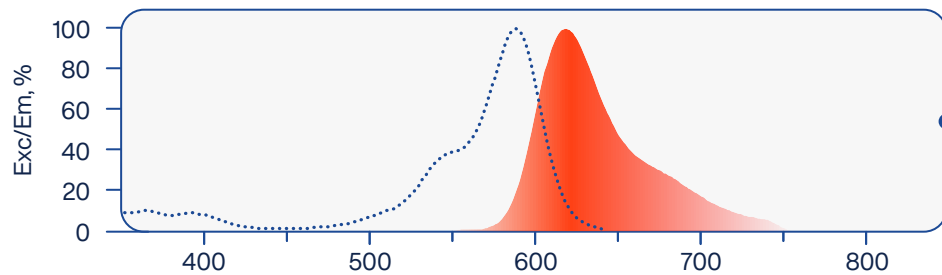
Excitation: 595 nm
Emission: 613 nm



AT 590 Dye

AT 590 dye is an orange fluorescent dye structurally identical to Atto™ 590.

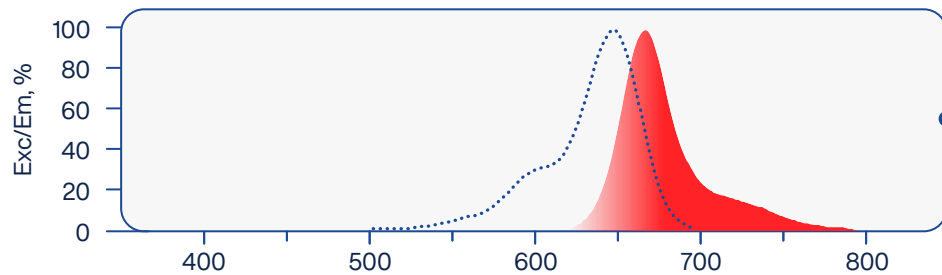
Excitation: 592 nm
Emission: 621 nm



Cyanine 5 Dye

Cyanine 5 dye is a red fluorescent dye structurally identical to Cy5™.

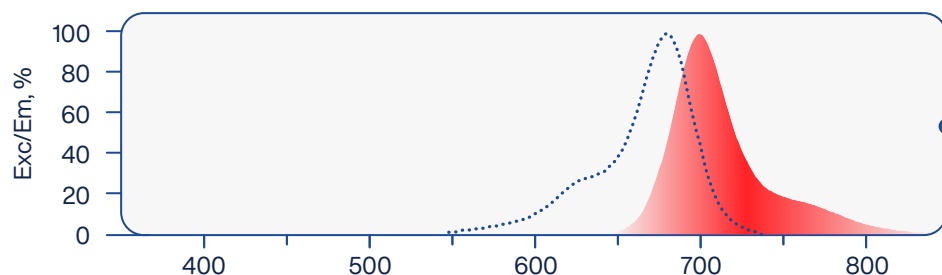
Excitation: 647 nm
Emission: 665 nm



Cyanine 5.5 Dye

Cyanine 5.5 dye is a far-red fluorescent dye structurally identical to Cy5.5™.

Excitation: 678 nm
Emission: 695 nm



Ordering information

Available AF dye modifications

Modification	Coupling group	AF 488	AF 555	AF 568	AF 594	AF 647
NHS ester	Amine	DB410102	DB410502	DB410202	DB410302	DB410402
Carboxylic acid	Amine (EDC)	DB410103	DB410503	DB410203	DB410303	DB410403
Amine	NHS ester	DB410104	DB410504	DB410204	DB410304	DB410404
Alkyne	Azide	DB410105	DB410505	DB410205	DB410305	DB410405
Azide	Alkyne	DB410106	DB410506	DB410206	DB410306	DB410406
PEG4 Alkyne	Azide	DB410107	DB410507	DB410207	DB410307	DB410407
PEG4 Azide	Alkyne	DB410108	DB410508	DB410208	DB410308	DB410408
DBCO	Azide	DB410109	DB410509	DB410209	DB410309	DB410409
Maleimide	Thiol	DB410110	DB410510	DB410210	DB410310	DB410410
PEG5 Biotin	Streptavidin	DB410111	DB410511	DB410211	DB410311	DB410411
TCO	Tetrazine	DB410112	DB410512	DB410212	DB410312	DB410412

Available other fluorescent dye modifications

Modification	Coupling group	AT 488	Cyanine 5	Cyanine 5.5	txRED	AT 590
NHS ester	Amine	DB410702	DB410902	DB411002	DB411102	DB411202
Carboxylic acid	Amine (EDC)	DB410703	DB410903	DB411003	DB411103	DB411203
Amine	NHS ester	DB410704	DB410904	DB411004	DB411104	DB411204
Alkyne	Azide	DB410705	DB410905	DB411005	DB411105	DB411205
Azide	Alkyne	DB410706	DB410906	DB411006	DB411106	DB411206
PEG4 Alkyne	Azide	DB410707	DB410907	DB411007	DB411107	DB411207
PEG4 Azide	Alkyne	DB410708	DB410908	DB411008	DB411108	DB411208
DBCO	Azide	DB410709	DB410909	DB411009	DB411109	DB411209
Maleimide	Thiol	DB410710	DB410910	DB411010	DB411210	DB411210
PEG5 Biotin	Streptavidin	DB410711	DB410911	DB411011	DB411211	DB411211
TCO	Tetrazine	DB410712	DB410912	DB411012	DB411212	DB411212



 www.dianabiotech.com

 lifescience@dianabiotech.com

DIANA Biotechnologies is a Czech biotech company producing top-quality molecular biology reagents and enzymes for R&D and diagnostics. Powered by a team of top scientists in chemistry, biochemistry and molecular biology, we offer unique proprietary products and technologies not only in molecular biology, but also in engineered proteins & enzymes, custom monoclonal antibody development, kinase profiling and advanced PCR diagnostics.

