



PROTEIN  
IMMOBILIZATION  
ON SOLID SUPPORTS

PROTEIN  
CROSSLINKING TO  
NANOPARTICLES/  
POLYMERS

PROTEIN LABELLING  
WITH CHROMO/  
FLUOPHORES

PROTEIN-OLIGO  
CONJUGATION

PROTEIN-ANTIBODY  
CONJUGATION

## Protein Labeling & Cross linking

Explora's custom protein labeling & cross-linking service provides personalized solutions designed to supply researchers with the widest choice of labels and cross linkers to meet their specific needs. Protein modification and cross-linking has emerged as a powerful tool for several different application field such as:

- Enzyme & Antibody modifications and conjugations (biotin, chromo- and fluorophores, PEGylation)
- Oligo modification and labeling
- Nanoparticle functionalization (e.g gold-labeled, magnetic nanoparticles, silica particle)
- Surface immobilization (e.g. Microtitre wells, silica and gold slides)
- Development of 'small' molecule drug & enzyme conjugates to therapeutic antibodies
- Modification of key properties of therapeutic proteins to optimise PK/PD behaviour
- In-vivo protein trafficking and subcellular localization
- Conjugated biopharmaceuticals for targeted delivery of cytotoxic agents.

On your behalf we carry out:

- **Biomolecule-low molecular weight compounds labeling** (e.g. protein-biotin, digoxigenin, FITC)
- **Biomolecule-biomolecule conjugation** (e.g. antibody-HRP or protein-oligo)
- **Immobilization on solid supports** (e.g. protein-magnetic nanoparticles, antibody-beads)

With a broad range of reagents:

- Fluorescent labels
- Chromophores
- Photoactivated labels
- Photolabile labels
- Cleavable labels

To receive a quotation, please fill-in this form.

To order a custom labeling reaction, please fill-in this form.

Please find below a list of available labels at our labs. If you don't find the labeling compound you are looking for, just provide us with the commercial name, catalogue number and manufacturer/distributor name. We will purchase the reagents for you.

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## List of available labels

Reactivity	Cat #	Compound Name
Amine-reactive (e.g. Lys) labels	21326	Biotin
	E000045/EZ	Chromo-PEG3-Biotin with UV traceable group
	21363	PEG4-Biotin
	21327	(CH <sub>2</sub> ) <sub>5</sub> -Biotin
	21328	SS-Biotin
	E00055/EZ	Chromo-PEG3-Digoxigenin with UV traceable group
	E00059/EZ	Alexa Fluor 488
	E00055/EZ	Alexa Fluor 555
	88793	Atto 532 NHS ester
	16986	Atto 700 NHS-ester
	53394	Atto 637 NHS ester
	59808	Atto 740 NHS ester
	04022	Atto 665 NHS ester
	75999	Atto 680 NHS ester
	92835	Atto 550 NHS ester
	43429	Atto 635 NHS ester
	41698	Atto 488 NHS ester
	E00041/EZ	Atto 633 NHS ester
	53404	Atto 465 NHS ester
	77810	Atto 520 NHS ester
	00379	Atto 495 NHS ester
	72464	Atto 565 NHS ester
	79636	Atto 590 NHS ester
	76245	Atto 655 NHS ester
	16805	Atto 425 NHS ester
	33005	NHS-AMCA
	46115	Texas Red Sulfonyl Chloride
	62278	DyLight 755 NHS Ester
	46400	DyLight 405 NHS Ester
	46402	DyLight 488 NHS Ester
	46112	Tetramethylrhodamine (TRITC)
	46406	NHS-Rhodamine
	62262	DyLight 550 NHS Ester
	46424	Fluorescein Isothiocyanate (FITC)
	46409	NHS-Fluorescein
	46412	DyLight 594 NHS Ester
	46414	DyLight 633 NHS Ester
	62265	DyLight 650 NHS Ester
	62266	DyLight 650 NHS Ester
	46417	DyLight 633 NHS Ester
	46418	DyLight 680 NHS-Ester
	46421	DyLight 800 NHS-Ester

## List of available labels

Reactivity	Cat #	Compound Name
<b>Carboxyl-reactive (e.g. Glu) labels</b>	21346	Amine-PEG2-Biotin
	21347	Amine-PEG11-Biotin
	26136	Amine-PEG3-Biotin
	33015	AMCA-Hydrazide
	74417	Atto 488 amine
	95349	Atto 647N amine

Reactivity	Cat #	Compound Name
<b>Sulfhydryl-reactive (Cys) labels</b>	21900	BMCC-Biotin
	21341	HPDP-SS-Biotin
	21333	Iodoacetyl-(CH <sub>2</sub> ) <sub>5</sub> -Biotin
	21334	Iodoacetyl-PEG2-Biotin
	21911	Maleimide-PEG11-Biotin
	21902	Maleimide-PEG2-Biotin
	33020	AMCA-HPDP 5 mg
	46120	5-Iodoacetamido-fluorescein (5-IAF)
	42298	DyLight 755 Maleimide
	46130	Fluorescein-5-maleimide
	46600	DyLight 405 Maleimide
	46602	DyLight 488 Maleimide
	62290	DyLight 550 Maleimide
	46608	DyLight 594 Maleimide
	46613	DyLight 633 Maleimide
	62295	DyLight 650 Maleimide
	46618	DyLight 680 Maleimide
	46621	DyLight 800 Maleimide
	28562	Atto 488 maleimide
	41784	Atto 647 maleimide
49349	Atto 425 maleimide	
80661	Atto 655 maleimide	
18507	Atto 565 maleimide	

Reactivity	Cat #	Compound Name
<b>Aldehyde-reactive (e.g. oxidesed sugars)</b>	21339	Hydrazide-Biotin
	E00052/EZ	Hydrazide-PEG4-Biotin
	26137	Alkoxyamine-PEG4-Biotin
	26138	Alkoxyamine-PEG4-SS-PEG4-Biotin
	26139	Alkoxyamine-PEG12-Biotin
	33015	AMCA-Hydrazide
	21340	Hydrazide-(CH <sub>2</sub> ) <sub>5</sub> - Biotin

## Information

### ABOUT EXPLORA BIOTECH

EXPLORA S.r.l. is a privately owned Italian company established in 2006 at the Technological Park "Tecnopolo Tiburtino" in Rome by a pool of young researchers and the support from a French seed capital organization INVENT SaS. EXPLORA is a research-driven company, committed to the development of enabling technologies and products for the Life Science community and develop innovative applications in the field of biological engineering.

### BUSINESS MODEL

EXPLORA's broad portfolio of services can help you to achieve your ambitious goals. Whether you need a stand-alone service or comprehensive R&D support.

EXPLORA's service solution can be set up on a partnering basis and is designed for tactical outsourcing needs (e.g. capacity limitations), strategic needs (e.g. accessing specific expertise) and on project basis, where customers require the capabilities that EXPLORA offers without the internal investment commitment.

We prosecute two business models:

- **CUSTOM SERVICE**

EXPLORA offers to customer tailor-made technical services with no royalties or other success sharing schemes. Services are provided on a non-exclusive basis.

- **CONTRACT RESEARCH**

Contract research programs (CRP) are carried out on exclusive basis in view of R&D funding, licensing and success payments, developmental milestones, and royalties on end products. EXPLORA offers the transfer of its proprietary technologies to its clients in view of technology access fees, license payments, developmental milestones, and royalties on end products. Agreements with EXPLORA can be structured in a variety of ways, from simple patent licenses and library licenses, to more involved funded research and/or co-development agreements. Implementation of CRP implies that our collaborator pays full cost equivalent (FCE) to EXPLORA,

as well as success payments based upon EXPLORA's achievement of mutually agreed project milestones.

### EXPLORA COMPETITIVE OFFER

EXPLORA recognizes that each client and program is as unique as their ambitious goals, and we strive to provide a customized service. In addition, we regularly support clients with additional key biotechnology services ranging from LCA, market analysis, business plan and IP assessment.

Partnering advantages:

- Personal contact person within EXPLORA
- Interaction with key scientists
- Personalized project defined databases
- Personalized data reports
- Access to raw data via secure VPN connection
- Assistance with data interpretation
- Bioinformatics tools and information
- Fast and focused customer service

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