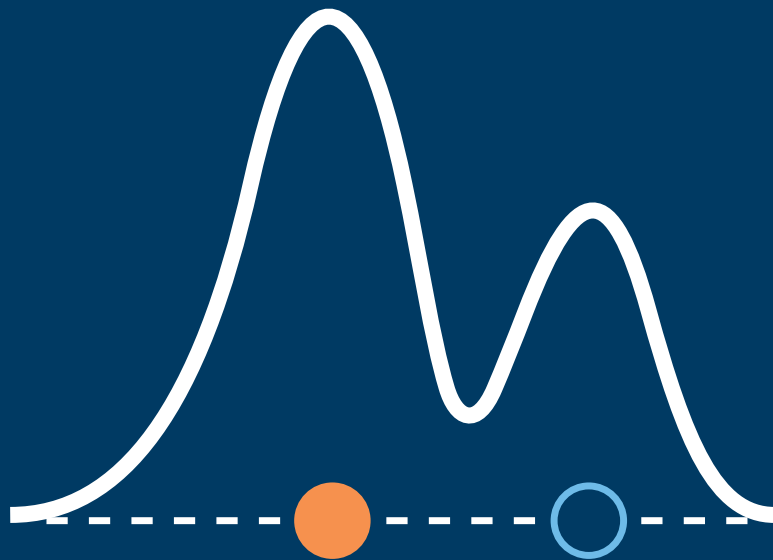
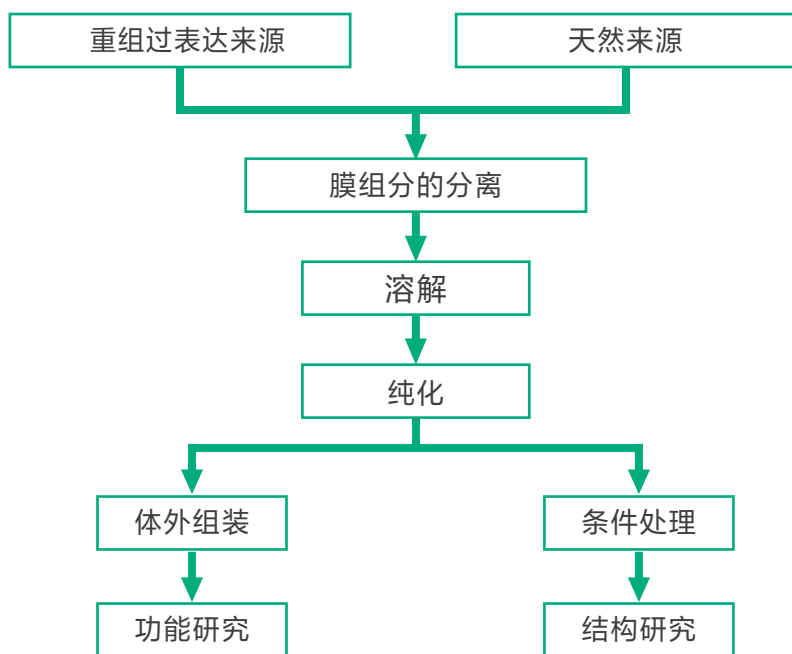


膜蛋白纯化 层析组合精选



膜蛋白纯化和分析都有很大的挑战，首先是膜蛋白很难大量制备，通常膜的体积只有细胞体积的 0.3%，通过基因重组过表达来生产膜蛋白通常对细胞具有毒性，很难实现大规模的生产。常规的膜蛋白都是与细胞膜结合，要分离制备首先是用去垢剂将其溶解纯化，然后去除去垢剂人工构建磷脂双分子层，再进行功能和活性的研究。

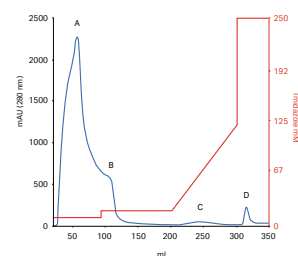
膜蛋白通用纯化工艺



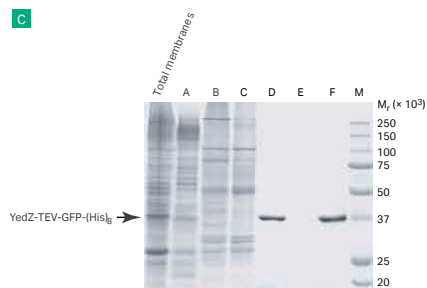
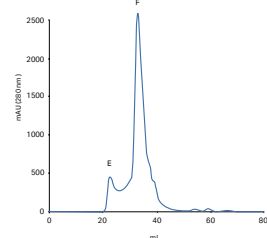
目前重组过表达的形式生产膜蛋白是最常用的方法。而大部分膜蛋白都带有亲和的标签，最常用的是 His 标签和 Strep(II) 标签。

两步法纯化法 YedZ-TEV-GFP-(His)₈

A IMAC
 Column: HisTrap™ HP, 5 ml
 Sample: Solubilized membranes with YedZ-TEV-GFP-(His)₈ fusion protein
 Sample load: 2.5 mg fusion protein/ml medium (after solubilization at 3 mg/ml)
 Binding buffer: PBS, 0.1% DDM, pH 7.4
 Elution buffer: Binding buffer with 500 mM imidazole, pH 7.
 Wash: 4% elution buffer over 20 CV, 4–25% over 20 CV
 Elution: 50% elution buffer
 Flow rate: Load 0.3–0.5 ml/min, elution 1 ml/min
 System: ÄKTApurime™



B Gel filtration
 Column: Superdex™ 200 10/300 GL
 Sample: Fraction D from HisTrap™ HP
 Sample load: 0.5 ml
 Buffer: PBS, 0.1% DDM, pH 7.4
 Flow rate: 0.4 ml/min
 System: ÄKTApurime™



订购信息

实验阶段	产品类型	货号	产品名称	产品规格		
STEP 1	标签亲和层析	17524802	HisTrap HP	5x5 mL		
		17525501	HisTrap FF	5x5 mL		
		17528601	HisTrap FF Crude	5x5 mL		
		28953767	HiTrap TALON crude	5x5 mL		
		★ 17371206	HisTrap excel	5x5 mL		
		17526802	NI Sepharose HP	100 mL		
		17531802	NI Sepharose 6FF	100 mL		
		★ 17371202	Ni Sepharose excel	100 mL		
		28907546	StrepTrap HP	5x1 mL		
		28907548	StrepTrap HP	5x5 mL		
		29401320	StrepTrap XT	5x1 mL		
		29401323	StrepTrap XT	5x5 mL		
		28400990	His MultiTrap FF	4x96 孔板		
		28400989	His MultiTrap HP	4x96 孔板		
		29000596	His MultiTrap TALON	4x96 孔板		
		28932171	His SpinTrap Kit	1 套		
		11003399	His GraviTrap	10x1 mL		
		28401351	His GraviTrap KIT	1 套		
		11003400	His Buffer KIT	1 套		
		STEP 2	凝胶过滤预装柱	29148721	Superdex 75 Increase 10/300 GL	1x24 mL
				29148722	Superdex 75 Increase 5/150 GL	1x3 mL
				28990945	Superdex 200 Increase 5/150 GL	1x3 mL
				29148723	Superdex 75 Increase 3.2/300	1x2.4 mL
				29091598	Superose 6 Increase 3.2/300	1x2.4 mL
28990946	Superdex 200 Increase 3.2/300			1x2.4 mL		
28989333	HiLoad 16/600 Superdex 75 pg			1x120 mL		
28989335	HiLoad 16/600 Superdex 200 pg			1x120 mL		
29323952	HiLoad 16/600 Superose 6 pg			1x120 mL		
29091597	Superdex 6 Increase 5/150			1x3 mL		
28990944	Superdex 200 Increase 10/300 GL			1x24 mL		
★ 29091596	Superose 6 Increase 10/300 GL			1x24 mL		

其他相关产品订购信息

实验阶段	产品类型	货号	产品名称	产品规格
蛋白表达	脱盐预装柱	29048684	HiTrap Desalting	1x5 mL
		17140801	HiTrap Desalting	5x5 mL
		17508701	HiPrep 26/10 Desalting	1x53 mL
		17085101	Disposable PD-10 Desalting Column, with Sephadex G-25 resin	30 个
	离子交换预装柱	17117701	RESOURCE Q	1x1 mL
		29275878	Capto HiRes Q 5/50	1x1 mL
		29275877	Capto HiRes S 5/50	1x1 mL
	超滤管	28932363	Vivaspin 20, MWCO 100 kDa	12 个
		28932361	Vivaspin 20, MWCO 30 kDa	12 个
	重力空柱	17043501	Column PD-10, empty	50 个
		18321603	LabMate PD-10 Buffer Reservoir	10 个

快速订购通道

- 1 扫描右侧 Cytiva 微信公众号，进入 **Cytiva 在线商城**，即刻了解消耗品最新促销活动；
- 2 如您有产品应用及技术问题，欢迎拨打 **Cytiva 智荟专线**：400 810 9118



cytiva.com.cn/purify

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