

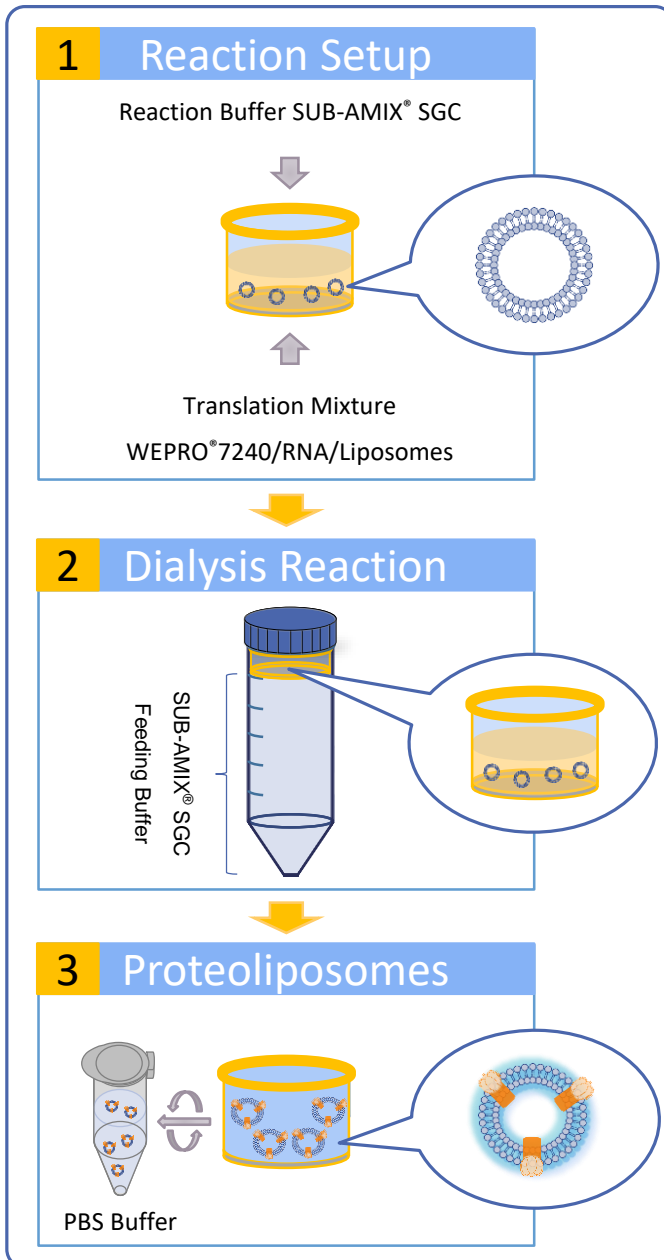
ProteoLiposome Expression Kits

Access to Membrane Proteins for functional Studies and Antibody Preparation

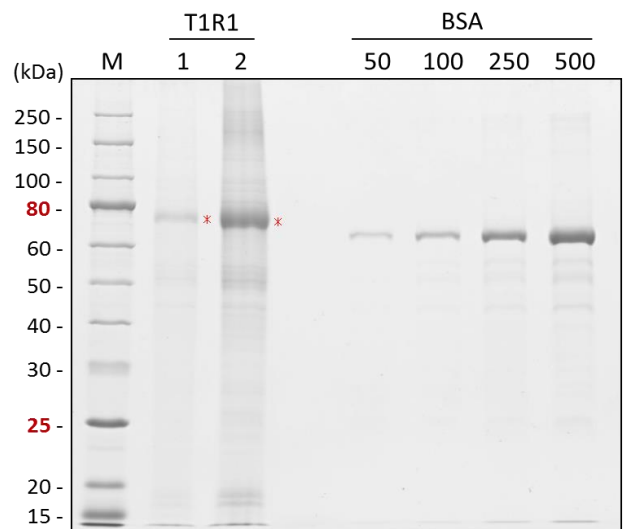
Advantages

- Preparation of proteoliposomes made easy by dedicate protein expression kits
- Use of high performance wheat germ extract WEPRO7240
- Lyophilized Asolectin liposomes for easy reaction setup
- Different reaction formats depending on yield requirements (bilayer and dialysis-driven BD reaction)
- Direct formation of proteoliposomes during cell-free protein expression reaction
- Proven for many GPCRs and Transporter proteins

Technology



Example: Taste Receptor T1R1



Lane	Sample	Yield
M	Molecular weight marker	-
1	Bilayer kit reaction (0.5 µl)	83 µg
2	BD kit reaction (0.5 µl)	603 µg
BSA	Reference Standard	
*	T1R1 protein	

- 1** Bilayer kit reactions can rapidly provide protein amounts needed for functional analysis (~24 h reaction time)
- 2** Dialysis-driven BD kit reactions can provide protein amounts required for antibody production (~72 h reaction time)
- 3** Proteoliposomes can be easily purified by a centrifugation step and washing with PBS buffer

Ordering Information

Product Name	Catalog No.	Description	Reactions	Storage
Proteoliposome PLUS Expression Kit	CFS-EDX-PLUS-PLE	Starter kit for easy expression of membrane proteins on 240 µl bilayer reaction scale. Reaction mix already contains liposomes for easy preparation of proteoliposome complexes.	8 BL reactions	-80°C
Proteoliposome Expression Kit	CFS-TRI-PLE	For the expression of membrane protein and direct formation of proteoliposomes on 4 m BL reaction scale.	6 BL reactions	-80°C
Proteoliposome BD Expression Kit	CFS-TRI-PLE-BD	For high-yield expression of membrane proteins on 2.5 ml BD reaction scale for direct formation of proteoliposomes. Additional reagents provided for testing expression vector in absence of liposomes.	20 x 226-µl BL reactions 6 x BD reactions	-80°C
Asolectin Liposomes, lyophilized	CFS-PLE-ASL	6 vials with 10mg of lyophilized liposomes each	60 mg	RT or below

BL = Bilayer reaction format; BD = Bilayer-dialysis reaction format

- CFS can provide expression vectors free of charge
- CFS Protein Research Kit(S) can be used for testing expression vectors and conditions
- Request reference list on published data
- Follow us on LinkedIn for updates and news from CellFree Sciences

Products commonly shipped on dry ice by express carrier (no dry ice shipment needed for CFS-PLE-ASL)

Shelf-life: 1 year

Contact us for more information and help on how to use our protein expression system.



CellFree Sciences Co., Ltd.

75-1 Ono-cho, LVP201, Tsurumi-ku,
Yokohama, Kanagawa 230-0046, Japan
Tel: 045-500-2119 Fax: 045-500-2117
E-mail : tech-sales@cfsciences.com
Website : <http://www.cfsciences.com>

