

Materials List for:

Production of Disulfide-stabilized Transmembrane Peptide Complexes for Structural Studies

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Materials

| Name | Company | Catalog Number | Comments |
|-----------------------------------|-----------------------|---|--|
| Cyanogen bromide | ALDRICH | P.No- C91492,CAS-506-68-3 | HAZARDOUS SUBSTANCE. DANGEROUS GOODS. Very toxic by inhalation, in contact with skin and if swallowed. Contact with acids liberates very toxic gas. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| Trifluoroacetic acid | SIGMA-ALDRICH | P.CODE-1000984387, CAS Number 76-05-1 | HAZARDOUS SUBSTANCE. DANGEROUS GOODS. Causes severe burns. Harmful by inhalation. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 2-Mercapto-ethanol | SIGMA-ALDRICH | P.No M7154, CAS Number 60-24-2 | HAZARDOUS SUBSTANCE. DANGEROUS GOODS. Toxic by inhalation, in contact with skin and if swallowed. Irritating to skin. Risk of serious damage to eyes. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 1,1,1,3,3,3-Hexafluoro-2-propanol | SIGMA-ALDRICH | Product Number 52512, CAS-No. 920-66-1 | HAZARDOUS SUBSTANCE. DANGEROUS GOODS. Harmful by inhalation and if swallowed. Causes burns. |
| Formic acid | Merck KGaA | K41186564 | Flammable liquid and vapour. Causes severe skin burns and eye damage. |
| Urea | UNIVAR, AJAX FINECHEM | Product Number, 817, CAS-No 57-13-6 | When heated, decomposes to carbon dioxide and ammonia; if burned, emits small amounts of nitrogen oxides. Can cause redness and irritation of skin and eyes. |
| GUANIDINE HYDROCHLORIDE | Amresco | P.No-M110, CAS Number: 50-01-1 | Harmful if swallowed, Causes serious eye irritation, Causes skin irritation, Acute Toxicity Oral, Skin Irritant, Eye Irritant. |
| TRITON X-100 | SIGMA | Product Number- T8532 CAS No: 9002-93-1 | Triton X-100 is a nonionic detergent, 100% active ingredient, which is often used in biochemical applications to solubilize proteins. Triton X-100 has no antimicrobial properties and considered a |

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| | | | comparatively mild non-denaturing detergent |
| His-Select Nickel-Affinity gel | SIGMA-ALDRICH | Catalog Num- P6611 | IS-Select Nickel Affinity Gel is an immobilized metal- ion affinity chromatography (IMAC) product. The HIS-Select Nickel Affinity gel is a proprietary quadridentate chelate on beaded agarose charged with nickel that is designed to specifically bind histidine containing proteins. |
| (-)-Glutathione, oxidized | SIGMA-ALDRICH | Catalog num 150568 | |
| Misonix S-3000 sonicator | QSONICA | S-3000 (discontinued) | Max power output 600 watts. 1/2-inch replaceable-tip probe takes 1/2-inch high-intensity, high-volume tips and a range of high-intensity, low-volume tips. Closest models currently available from this company are Q500 and Q700. |
| RP-HPLC: BioLogic DuoFlow chromatography system, Software Version 5.3 | Bio-Rad Laboratories | Catalog Num 760-0047, Config No: AU500571, Serial No: 484BR3705 | Peptides binds to reverse phase HPLC columns in high aqueous mobile phase and are eluted from RP HPLC columns with high organic mobile phase. In RP HPLC peptides are separated based on their hydrophobic character. Peptides can be separated by running a linear gradient of the organic solvent. |
| Prep HT C3 ZORBAX 300SB-Analytical HPLC Column, 21.2 x 150 mm, 5 µm particle size | Agilent | Product No: 895150-909 | Reversed-phase HPLC colum |
| NuPAGE 12% Bis-Tris Gels | Life Technologies | NP0341BOX | Pre cast gels for protein electrophoresis |
| Slide-A-Lyzer G2 Dialysis Cassettes, 3.5K MWCO | Thermo Scientific | Product No: 87724 | Sample dialysis |