THE PROTEIN EXPRESSION FACILITY

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Protein Information Submission Form

P.I. name:
Contact Person:
Affiliation:
Address:
E-mail address:
Phones:
Name of protein/s:

Dear customer, please fill in this form as thoroughly as possible. The more information, the better we could perform the expression/purification tasks.

KNOWN DATA: DETAILED INFORMATION LIST:
Protein Name
Gene identification number and link to SwissProt info sheet
Origin/species
Cellular localization
Molecular Weight (kDa)
Entry number in PDB
Known activity
Oligomeric state
Known Post translational modifications: (+ position)
Number of Cysteins
Known/putative disulphide bridges (+ position)
Functions of Protein
Forms complex with
Possible interactions (specify all known)
Sequence (nucleotides and AA)

PRELIMINARY EXPERIMENTAL RESULTS:
Expression systems tested
Vector name, maker, map and sequence
Fusion partner information and localization (N/C term)
Known procedures and relevant articles
Previous records of expression and purification experiments
Expression profile PAGE-SDS (Coomassie stain, Western blot, etc.)
Activity assay (method and results)
Cell lysis procedure used
REQUIRED DOWNSTREAM PROCESSES AND APPLICATIONS:
Intended downstream applications
Quantity and concentration required for each application
Desired production scale (quantity)
Required purity
Other requirements (buffer/co-factors/detergents/etc/)

PURIFICARTION INFORMATION:
pI
Required purity
Cell lysis procedure (French Press, sonication, etc.)
Suggested lysis buffer (buffer, pH, salts, detergent, co-factors, protease inhibitors, etc.)
Suggested purification buffer (buffer, pH, salts, detergent, co-factors, protease inhibitors
Suggested storage buffer and storage conditions (buffer, pH, salts, detergent, co-factors, protease inhibitors, etc.)
Suggested storage conditions (temperature, aliquots, etc.)
Cell Centrifugation possible
Extracellular Protein
Proteases from Strain
Aggregation tendency
Hydrophobicity of the Protein
Temperature Stability
pH stability range
Known co-factors, ligands, divalent cations, etc.
Salt range stability

Required salt concentration in the sample
Preliminary scale (initial growth volume)
Final production scale
Solvent resistant Protein
Requires/sensitive to detergents
Requires/sensitive to chelating reagents (EDTA, EGTA, etc.)
Requires/sensitive to divalent cations
Requires/sensitive to reducing agents