

THE HEBREW UNIVERSITY OF JERUSALEM

האוניברסיטה העברית בירושלים

THE PROTEIN PURIFICATION UNIT

THE WOLFSON CENTRE FOR

APPLIED STRUCTURAL BIOLOGY

היחידה לניקוי חלבונים

מרכז וולפסון

ליישומי ביולוגיה מבנית



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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:
Entry number in PDB
Origin / Species:
Known Protein Function:
Molecular Weight (kDa):
pI (https://web.expasy.org/protparam/):
Absorption Coefficient in Abs 0.1% (=1 g/l) (https://web.expasy.org/protparam/):
Oligomeric state monomer, dimer, etc:

Amino acid sequence (use different colors for the tag, the protease cleavage site and the target protein):
Possible post translational modifications (glycosilation, phosphorylation, others) and positions:
Forms Complex with:
Number of Cystein residues (requires/sensitive to reducing agents):
Known/putative disulphide bridges (+ position):
Temperature Stability:
pH stability range (buffer) :
Required salt concentration in the sample (Salt type and Salt range stability):
Solvent resistant protein:
Requires/sensitive to detergents:
Requires/sensitive to chelating reagents (EDTA, EGTA, etc):
Requires/sensitive to divalent cations:
Requires co-factors, ligands, etc :
Known tendency to form aggregates (VERY IMPORTANT):
Important information, like: protease sensitive, glycosilation or phosphorylation needs, others:
Literature (publications where same or similar protein was purified):
PRELIMINARY EXPERIMENTAL RESULTS
Expression (mark x in appropriate box) <ul style="list-style-type: none"> <input type="checkbox"/> Expression in bacteria <input type="checkbox"/> Expression in insect cells <input type="checkbox"/> Expression in mammalian cells <input type="checkbox"/> Cell free expression <input type="checkbox"/> Natural (non-recombinant). Source:
Vector name, maker, map and sequence

Fusion partner information and localization (N/C term)
Expression profile PAGE-SDS (Coomassie stain, Western blot, etc.). Include cell lysis protocol: procedure, lysis buffer, and purification. Show SDS-PAGE results
Cellular localization during expression (Cytoplasmatic, Extracellular, Membrane Bound / Associated, Inclusion Bodies, Periplasmic, etc):
Activity assay (method and results)
History / Failures of purification
Known aggregation tendency from the literature or personal experience (like expression as inclusion bodies in many expression conditions, or turbidity after Ni purification, or protein lost during purification or concentration, others):
REQUIRED PROCESSES AND APPLICATIONS
Intended use of the protein (very important: remark needs of sterility, endotoxin free, others)
Final production scale - Quantity you need or for each application:
Required purity (therapeutic, very high, high, partially pure, other):
Other requirements (buffer/co-factors/detergents/etc/)
Preliminary scale (initial growth volume):
Suggested 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, etc.):
Suggested storage buffer (buffer, pH, salts, detergent, co-factors, protease inhibitors, etc.):

Suggested storage conditions (temperature, aliquots, etc):

Other available information