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## Semisynthetic Proteins

**semisynthetic bioluminescent sensor proteins for direct ...** - semisynthetic bioluminescent sensor proteins for direct detection of antibodies and small molecules in solution remco arts, susann k. j. ludwig, benice c. b. van gerven, eva magdalena estirado, lech-gustav milroy, **a semisynthetic fluorescent sensor protein for glutamate** - a semisynthetic fluorescent sensor protein for glutamate ... three fluorescent sensor proteins for investigating the role of ... semisynthetic fluorescent sensor proteins (snifits),6,7 are fusion proteins consisting of snap-tag,8 clip-tag,9 and an analyte-binding protein (figure 1a). snap- and clip-tag are **biochemistry semisynthetic sensor proteins enable ...** - introduce semisynthetic, light-emitting sensor proteins for use in paper-based metabolic assays metabolite is oxidized by nicotinamide adenine dinucleotide phosphate, and the sensor changes color in the presence of the reduced cofactor, enabling metabolite quantification with the use of a digital camera approach makes any metabolite that **akt kinase activation mechanisms revealed using protein ...** - akt1 semisynthetic proteins to assess the catalytic properties of the semisynthetic full-length akt1 forms, we adopted a radioactive assay which measures the incorporation of <sup>32</sup>p into a gsk3 peptide substrate (tarrant et al., // // // kinase activation. d // . 3) ^ = +;.. **expressed protein ligation: a general method for protein ...** - quantification of the semisynthetic csk proteins was based on the intensity of coomassie blue stained bands on sds-page compared with known amounts of wild-type csk and relative amounts of csk semisynthetic proteins further confirmed by quantitative fluorescence imaging (storm, molecular dynamics). **protein semisynthesis - cell** - the demonstration that proteins can spontaneously regain a native state from one that is disordered [1] implies that the code of rules from which higher order ... semisynthetic rna-s' (the 'prime' denotes reconstituted fragment complex). the semisynthetic complex can also be ... **[7] semisynthesis of proteins containing selenocysteine** - a semisynthetic approach for incorporating selenocysteine residues into pro ... (7) semisynthesis of proteins with selenocysteine 75 embedding selenocysteine within a peptide (so as to effect strategies 1 and 2) is not described explicitly herein, but is a straightforward extension of the methods **semi-synthetic proteins for catalytic and analytical ...** - semi-synthetic proteins for catalytic and analytical applications a thesis presented to the academic faculty by karl j. hüttinger in partial fulfillment of the requirements for the degree doctor of philosophy in chemistry georgia institute of technology may 2009 . **phosphorylation-mediated pten conformational closure and ...** - phosphorylation-mediated pten conformational closure and deactivation revealed with protein semisynthesis david bolduc1, ... many proteins are regulated by the addition and removal of phosphate groups, and pten is no ... semisynthetic proteins were >90% pure using coomassie staining and their structural integrity confirmed by mass spectrometry ... **construction of a semisynthetic human** - proteins were cloned using the pset-bh6 plasmid with two important tags that allow simple purification and to accommodate in vivo biotinylation. e. coli cell bl21(de3) with prae3 was used for protein expression and in vivo biotinylation for both antigens. phage library selection. the semisynthetic domain antibody **multifunctionalization of proteins: strategies for ...** - multifunctionalization of proteins: strategies for combining semi-synthetic and bioorthogonal techniques john b. warner a dissertation in chemistry presented to the faculties of the university of pennsylvania in partial fulfillment of the requirements for the degree of doctor of philosophy 2014 supervisor of dissertation \_\_\_\_\_ **using biochemical and structural approaches to study egfr ...** - vi list of figures figure 1.1 preparation of the gst-mig6 semisynthetic proteins by.....13 expressed protein ligation (epl). **structural basis for the enhanced stability of highly ...** - structural basis for the enhanced stability of highly fluorinated proteins benjamin c. buera, jennifer l. meagherb, jeanne a. stuckeyb,c, ... gation strategies to produce semisynthetic proteins have allowed a wide range of noncanonical side chains to be introduced into **the j biological c printed in u.s.a. the role of c ...** - fusion proteins were ligated to synthetic peptides in the presence of 2% thiophenol.2 the purity of the semisynthetic proteins was determined by 10% sds-page stained with coomassie blue and by maldi mass spectrometry ( 90%). the yield was 2–10 mg of protein/liter in e. coli cell culture as revealed by bradford assay (24).

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