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(54) Title: POLYPEPTIDE-BASED SHUTTLE AGENTS FOR IMPROVING THE TRANSDUCTION EFFICIENCY OF POLYPEPTIDE CARGOS TO THE CYTOSOL OF TARGET EUKARYOTIC CELLS, USES THEREOF, METHODS AND KITS RELATING TO SAME

(57) Abstract: The present description relates to synthetic peptides useful for increasing the transduction efficiency of polypeptide cargos to the cytosol of target eukaryotic cells. More specifically, the present description relates to synthetic peptides and polypeptide-based shuttle agents comprising an endosome leakage domain (ELD) operably linked to a cell penetrating domain (CPD), or an ELD operably linked to a histidine-rich domain and a CPD. Compositions, kits, methods and uses relating to same are also described.

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