

RECOMBINANT CONSTRUCT BASED ASSAY FOR SCREENING DRUGS AGAINST HOST PROTEASES HELPING IN VIRUS ENTRY

- The proof-of-concept *in vitro* assay is based on a reporter based substrate having cellulose binding region at one end and a reporter protein on the other end.
- Host proteases cleave viral structural proteins and help in virus-receptor attachment and entry. Our assay can be used to screen potential antiviral candidate drugs that are targeted against the protease cleavage and thus in turn virus entry.
- There is no requirement of animal cell culture.
- The substrate used can be purified from bacterial source and thus is easy to make.
- The substrate carries hexa-histidine tag at one end for the purpose of protein purification
- The substrate contains sequence from SARS-CoV-2 spike protein. The sequence can be replaced by similar regions from structural proteins of other viruses and thus may be modified and used for multiple viruses using similar entry mechanisms

Patent publication number: WO2023073733

ASSAY DETAILS

