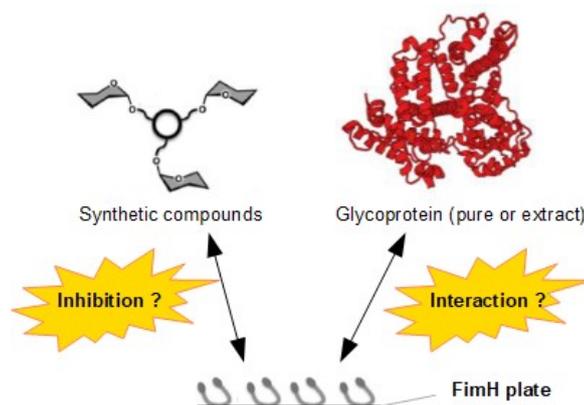


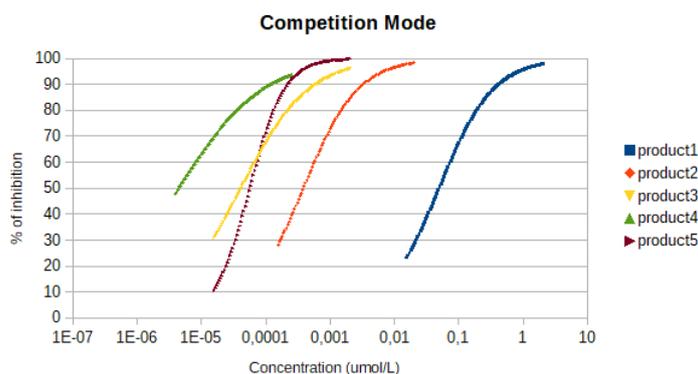
Description

FimH lectin (or type 1 fimbrial lectin), found in Escherichia Coli (E.Coli), is a lectin which plays crucial role in bacterial adhesions and diseases through interaction with carbohydrate receptors. FimH lectin is known to have high affinity with mannose. Since the 1970s, a large panel of synthetic inhibitors have been developed in order to modulate the bacterial colonisation¹. In this context, we developed FimH LEctPROFILE kit as a tool designed to screen potential ligands/inhibitors of FimH or to highlight glycans specificity of a glycoconjugate recognized by this lectin.



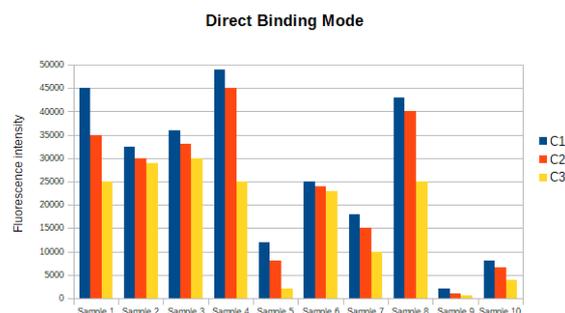
Applications

The FimH LEctPROFILE kit allows the evaluation of compounds interactions with FimH by two different modes :



- **Competition Mode** : Competitive interaction between a sample and a specific labelled tracer known to have good affinity for FimH without preliminary labelling of sample. This mode is typically used for the evaluation of the IC50-value (concentration corresponding to 50% of lectin inhibition), for the screening of potential candidate, for avidity comparison or for batch to batch monitoring.

- **Direct Binding** to evaluate potential interaction of compounds ranging from pure molecule to complex mixtures (glycocojugate(s), complex carbohydrates or glycomimetics). Previous labeling of target molecule(s) by biotinylation or by fluoresceinylation is required for readout.



Name	Specificity	Kit Content	Analysis mode	Stability
FimH LEctPROFILE kit	High mannosylated structure glycan(s)	1 x 96 microplate well for fluorescence detection; Assay reagents: FimH tracer & Streptavidine-DTAF solutions	<i>Competition Mode: until 5-8 samples analysed in triplicate</i> <i>Direct Binding: until 10 samples analysed in triplicate at 3 concentrations</i>	6 months at -20 °C

Table 1. Specifications of FimH LectPROFILE kit.

References

1. Hartmann, M.; Lindhorst T. K.; *Eur.J.Org.Chem.*, **2011**, 3583-3609.