

## Ligandability assessments on FcRn<sub>ECD</sub>

*In-silico* ligandability assessments using SiteMap were performed on FcRn<sub>ECD</sub> using pH 3 and pH 8.5 crystal structures, in addition to a frame from a molecular dynamics simulation to model a neutral pH crystal structure [1,2].

SiteMap was used to identify binding sites with a propensity for binding small molecules (SiteScore) as well as the druggability score (DScore). At least three distinct sites were observed in each of the three conformations. Site A was predicted to be the most druggable using DScore with the highest potential for binding small molecules calculated by SiteScore. In the pH 7.2 computational model, Site A is merged with Site B. Site D is the next highest ranked site although it is not observed in the pH 3 crystallographic conformation. Although sites C and E are also observed, these are low scoring sites with a weak propensity for ligand binding.

1. Halgren T. Identifying and Characterizing Binding Sites and Assessing Druggability. *J Chem Inf Model.* 2009;49: 377–389.
2. Halgren T. New Method for Fast and Accurate Binding-site Identification and Analysis. *Chem Bio & Drug Design.* 2007;69: 146–148.