

## ABSTRACT

Disclosed are crystals, crystal structure FcγRIIa protein, three dimensional coordinates of FcγRIIa protein, and structures and models derived from the FcγRIIa structure. Also disclosed are crystals of FcεRI protein and three dimensional coordinates of FcεRI protein monomers and dimers derived from the FcγRIIa structure. Also disclosed are three dimensional coordinates of FcγRIIb proteins and models of FcγRIIb derived from the FcγRIIa structure. The present invention also includes methods to produce such crystals, crystal structures and models. Uses of such crystals, crystal structures and models are also disclosed, including structure based drug design and therapeutic compositions.



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