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(54) Title: PARAMETER SELECTED GM-CSF, IL-3, IL-4, IL-5 AND CHIMERAS THEREOF FOR THERAPEUTIC AND DIAGNOSTIC PURPOSES

(57) Abstract: The present invention relates generally to the fields of proteins, diagnostics, therapeutics and nutrition. More particularly, the present invention provides an isolated protein molecule in or related to the short chain 4 helix bundle superfamily such as GM-CSF, IL-3, IL-4 and IL-5 or chimeric molecules thereof comprising at least a portion of the protein molecule, such as GM-CSF-Fc, IL-3-Fc, IL-4-Fc and IL-5-Fc; wherein the protein or chimeric molecule thereof has a profile of measurable physiochemical parameters, wherein the profile is indicative of, associated with or forms the basis of one or more pharmacological traits. The present invention further contemplates the use of the isolated protein or chimeric molecule thereof in a range of diagnostic, prophylactic, therapeutic, nutritional and/or research applications.

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