NUTRITIONAL COMPOSITIONS CONTAINING PUNI CALAGINS

DESCRIPTION

TECHNICAL FIELD

[0001] The present invention relates generally to nutritional compositions comprising punicalagins and methods of using nutritional compositions comprising punicalagins.

DISCLOSURE OF THE INVENTION

[0002] In an embodiment, the present ~~invention~~disclosure is directed to nutritional compositions comprising a protein source, a fat source, a carbohydrate source, and punicalagins.

[0003] In another embodiment, the ~~invention~~disclosure is directed to a method for enhancing the immune system in a pediatric subject via the administration of punicalagins.

[0004] Further, the ~~invention~~disclosure, in an embodiment, is directed to a method for reducing allergic inflammatory responses in a pediatric subject via administration of punicalagins.

[0004A] In one aspect, there is provided a nutritional composition for aiding in immune system development in a pediatric subject comprising (a) a protein source; (b) a fat source; (c) a carbohydrate source; (d) punicalagins; (e) punicic acid; and (f) pomegranate leaf extract.

[0004B] In another aspect, there is provided the use of punicalagins, punicic acid and pomegranate leaf extract in the manufacture of a nutritional composition for enhancing the immune system of a pediatric subject.

[0004C] In a further aspect, there is provided the use of punicalagins, punicic acid and pomegranate leaf extract in the manufacture of a nutritional composition for reducing allergic inflammatory responses in a pediatric subject.

[0004D] In yet another aspect, there is provided an infant formula for aiding in immune system development comprising a protein source; a fat source; a carbohydrate source; punicalagins; pomegranate leaf extract and punicic acid.

[0004E] In a further aspect, there is provided a nutritionally complete composition for a pediatric subject comprising: a protein source; a fat source; a carbohydrate source; punicalagins; punicic acid; and pomegranate leaf extract.

BEST MODE FOR CARRYING OUT THE INVENTION

[0005] Reference now will be made in detail to the embodiments of the invention, one or more examples of which are set forth below. Each example is provided by way of explanation of the invention, not a limitation of the invention. In fact, it will be apparent to those skilled in the art that various modifications and variations can be made in the present

invention without departing from the scope or spirit of the invention. For instance, features illustrated or described as part of one embodiment, can be used on another embodiment to yield a still further embodiment.

[0006] Thus, it is intended that the present invention covers such modifications and variations as come within the scope of the appended claims and their equivalents. Other objects, features and aspects of the present invention are disclosed in or are obvious from the following detailed description. It is to be understood by one of ordinary skill in the art that the present discussion is a description of exemplary embodiments only, and is not intended as limiting the broader aspects of the present invention.

[0007] The present invention is directed, in some embodiments, to nutritional compositions comprising a protein source, a fat source, a carbohydrate source, and