

Title (en)

AGENTS THAT ACTIVATE OR INHIBIT TOLL-LIKE RECEPTOR 9

Title (de)

MITTEL, DIE TLR9 AKTIVIEREN ODER HEMMEN

Title (fr)

AGENTS POUVANT ACTIVER OU INHIBER LE RECEPTEUR 9 DE TYPE TOLL

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Application

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Abstract (en)

[origin: WO03035695A2] The present invention includes molecules that bind to a peptidic segment on TLR9 and mimic the effects of the CpG motif. The CpG mimicking agents include, but are not limited to, antibodies, small-molecule compounds, peptides, peptide mimetics, and nucleic acids, including compositions comprising molecules that bind to a peptidic segment on TLR9 and mimic the effects of the CpG motif suitable for administering to a patient in need of treatment, optionally in combination with, for example, an excipient, diluant, or carrier. In addition, the present invention includes those molecules which bind to the TLR9's CXXC motifs at 255Cys-Arg-Arg 258Cys as CRRC or at 265Cys-Met-Glu 268Cys as CMEC. The present invention includes methods for modulating the immune response by inducing a Th1-type response comprising administering molecules that bind to TLR9 and mimic CpG function. These molecules also shift the host cellular response away from a Th2-type response toward the Th1-type response. Thus, administering the molecules of the present invention that bind to TLR9 may avoid the risk of Th2-mediated, immunization-induced anaphylaxis, making this method useful in immunotherapy and asthma treatment. The molecules of the present invention may be administered in combination with a particular allergen.

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