Imiquimod

Brand name: Aldara®
IUPAC: 3-(2-methylpropyl)-3,5,8-triazatricyclo[7.4.0.0^2,6]trideca-1(9),2(6),4,7,10,12-hexaen-7-amine
FDA approval: Yes

Usage:

Imiquimod is supplied as a cream and applied externally to lesions. Conditions for which imiquimod is used include Superficial Basal Cell Carcinoma (BCC), Actinic Keratosis, External genital warts. Imiquimod is currently under investigation (in humans) for its effectiveness in treating other skin cancers, including melanoma. 1

Mechanism:

Imiquimod's (Aldara®) anti-cancer properties result from its ability to stimulate the body's own defenses (immune system) to destroy cancer cells. 1

The structure below is the 3D conformer Imiquimod.

Imiquimod


Side effects:

Common side effects include redness, itching or burning at site of application, swelling or flaking of skin, headache, back pain and tiredness. 1