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Anti-SLITRK6 Monoclonal Antibody-MMAE Conjugate AGS15E

National Cancer Institute

Source

National Cancer Institute. *Anti-SLITRK6 Monoclonal Antibody-MMAE Conjugate AGS15E*. NCI Thesaurus. Code C111995.

An antibody-drug conjugate (ADC) composed of a monoclonal antibody directed against SLIT and NTRK-like protein 6 (SLITRK6), covalently linked to the cytotoxic agent monomethyl auristatin E (MMAE), an auristatin derivative and a potent inhibitor of microtubule polymerization, with potential antineoplastic activity. Upon intravenous administration, the monoclonal antibody moiety of AGS15E binds to SLITRK6 expressed on tumor cells, which facilitates both AGS15E internalization and the intracellular delivery of MMAE. Upon cleavage, MMAE binds to tubulin and inhibits its polymerization, which results in G2/M phase arrest and tumor cell apoptosis. SLITRK6, a member of the Slitrk family of leucine-rich repeat (LRR) neuronal transmembrane proteins, is minimally expressed in normal tissue but overexpressed in a variety of cancers, including bladder cancer, some forms of lung cancer, breast cancer and glioblastoma.