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# Galectin-1 Inhibitor OTX008

National Cancer Institute

## Source

National Cancer Institute. *Galectin-1 Inhibitor OTX008*. NCI Thesaurus. Code C103828.

A calixarene-based compound and galectin-1 (Gal-1) inhibitor with potential anti-angiogenic and antineoplastic activities. Upon subcutaneous administration, galectin-1 inhibitor OTX008 binds Gal-1 which leads to Gal-1 oxidation and proteasomal degradation, through an as of yet not fully elucidated mechanism, and eventually downregulation of Gal-1. This decreases tumor cell growth and inhibits angiogenesis. Gal-1, a multifunctional carbohydrate-binding protein, is often overexpressed on tumor cells and plays a key role in cancer cell proliferation, apoptosis, tumor angiogenesis and evasion of immune responses.