**Table 2.** The MTHFD2 inhibitors.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Target(s) | Experimentally verify | Reference |
| LY345899 | MTHFD1/MTHFD2 | *In vitro* and *in vivo*:  colorectal cancer | (3, 52, 53) |
| Carolacton | MTHFD1/MTHFD2 | *In vitro*:  colon cancer  adenocarcinoma | (56) |
| MTHFD2 Inhibitor for THF pocket (MIT) | high specificity for MTHFD2 | - | (57) |
| MTHFD2 Inhibitor for NAD pocket (MIN) | high specificity for MTHFD2 | - | (57) |
| DS44960156 | high MTHFD2 affinity | - | (54) |
| DS18561882 | high MTHFD2 affinity | *In vitro* and *in vivo*:  breast cancer | (55) |