|  |  |  |  |
| --- | --- | --- | --- |
| **Mechanism of Suppression** | **MDSC-mediated Molecule** | **Effect on CD8+ T cells** | **References** |
| Release of IL-10 | IL-10 | Decreases antigen sensitivity and effector functions |  11 |
| Catabolism of Arginine | Arginase I | Essential to CD8+ T cell activation, substrate for iNOS |  12, 27 |
| Release of reactive nitrogen species | NO | Protein and surface receptor modification |  10, 13, 20, 26 |
| Release of reactive oxygen species | O2-, H2O2, OH, OH- | Blocks NFκB activation |  14, 21-25 |
| Checkpoint inhibition | PD-L1 | Binds PD-1 and inhibits TCR signaling |  15 |
| Proteolysis of L-selectin | ADAM17 | Unable to locate site of tumor |  16 |
| Catabolism of cytisine/cysteine | Cystine transporter xc- | Unable to proliferate in reduced cysteine environment |  17 |
| Activation of TGBβ | ⍺v integrin | Inhibits CD8+ T cell proliferation |  18 |
| Direct killing of CD8+ T cells | Fas-L | Induces cell death through Fas/Fas-L interaction |  19 |
| Reduction in cytotoxic granule production | Indoleamine 2,3-dioxygenase 1 (IDO) | Reduces cytotoxic capacity | 28  |

**Supplementary Table 1. Summary of proposed mechanisms of MDSC-mediated suppression.**