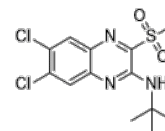


**Product Name** : GSDMD agonist DMB  
**Cat. No.** : PC-23025  
**CAS No.** : 281209-71-0  
**Molecular Formula** : C<sub>13</sub>H<sub>15</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>2</sub>S  
**Molecular Weight** : 348.24  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



CAS: 281209-71-0

### Biological Activity

GSDMD agonist DMB is a direct and selective **gasdermin D (GSDMD)** agonist, activates GSDMD pore formation to trigger liposome leakage with EC<sub>50</sub> of 0.7  $\mu$ M, activates GSDMD pore formation and pyroptosis without cleaving GSDMD.

DMB directly binds to GSDMD by microscale thermophoresis (MST) with a dissociation constant (K<sub>D</sub>) of 1.1  $\mu$ M.

DMB induces pyroptosis in immortalized and primary cells in a GSDMD-dependent and cleavage-independent manner.

DMB binds to GSDMD and induces cleavage-independent GSDMD oligomerization and pore formation. activated human GSDMD but not other human gasdermins, also activates mouse GSDMD in the liposome leakage assay, albeit with ~5-fold reduced efficacy.

GSDMD agonist DMB modifies GSDMD at C191, which is conserved in GSDMD from different species but not in other gasdermin family members.

DMB induces tumor regression and enhances antitumor immunity that depends on GSDMD expression in the tumor.

### References

Fontana P, et al. *Cell*. 2024 Sep 2:S0092-8674(24)00898-5.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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