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Inhibitors, Agonists, Screening Libraries

# MyD88

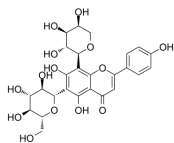
MyD88 (Myeloid differentiation primary response gene 88) is a protein that, in humans, is encoded by the MYD88 gene. Available evidence suggests that MYD88 is dispensable for human resistance to common viral infections and to all but a few pyogenic bacterial infections, demonstrating a major difference between mouse and human immune responses. MyD88 is an essential adaptor protein in the IL-1R1 signaling pathway. MyD88 may define a family of signal transduction molecules with an ancestral function in the activation of the immune system. MyD88 functions as a pure adaptor linking the IL-1R1 to downstream IRAK kinases. Mutation in MYD88 at position 265 leading to a change from leucine to proline have been identified in many human lymphomas including ABC subtype of Diffuse Large B-cell Lymphoma and Waldenstrom's Macroglobulinemia.

## MyD88 Inhibitors

### Schaftoside

Cat. No.: HY-N0703

Schaftoside is a flavonoid found in a variety of Chinese herbal medicines, such as Eleusine indica. Schaftoside inhibits the expression of TLR4 and Myd88. Schaftoside also decreases Drp1 expression and phosphorylation, and reduces mitochondrial fission.



**Purity:** 99.88%

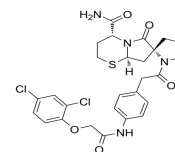
**Clinical Data:** No Development Reported

**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 20 mg

### ST 2825

Cat. No.: HY-50937

ST 2825 is a specific **MyD88** dimerization inhibitor. ST2825 interferes with recruitment of IRAK1 and IRAK4 by MyD88, causing inhibition of IL-1 $\beta$ -mediated activation of NF- $\kappa$ B transcriptional activity.



**Purity:** 99.86%

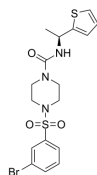
**Clinical Data:** No Development Reported

**Size:** 10 mM × 1 mL, 1 mg, 5 mg, 10 mg

### T6167923

Cat. No.: HY-19744

T6167923 is a potent and selective inhibitor of **MyD88-dependent signaling** pathways. T6167923 directly binds to Toll/IL1 receptor (TIR) domain of MyD88 and disrupts MyD88 homodimeric formation.



**Purity:** 99.42%

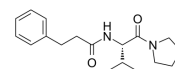
**Clinical Data:** No Development Reported

**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

### TLR1

Cat. No.: HY-W011400

TLR1 (compound 4a) is a low molecular weight, cell-penetrating **Toll/IL-1 receptor/resistance (TIR) domain/BB-Loop** mimic. TLR1 inhibits IL-1 receptor-mediated responses.



**Purity:** ≥99.0%

**Clinical Data:** No Development Reported

**Size:** 500  $\mu$ g (33 mM \* 50  $\mu$ L in Ethanol)