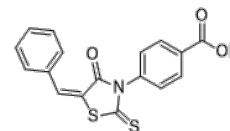


**Product Name** : BML-260  
**Cat. No.** : PC-49744  
**CAS No.** : 101439-76-3  
**Molecular Formula** : C<sub>17</sub>H<sub>11</sub>NO<sub>3</sub>S<sub>2</sub>  
**Molecular Weight** : 341.40  
**Target** : Deubiquitinase (DUB)  
**Solubility** : 10 mM in DMSO



CAS: 101439-76-3

### Biological Activity

BML-260 (BML260) is a potent inhibitor of dual-specific phosphatase **JSP-1** (JNK Stimulatory Phosphatase-1, **DUSP22**) and stimulator of uncoupling protein 1 (UCP-1) expression in adipocytes.

BML-260 activates UCP1 expression (both the mRNA level and the protein level) and increases mitochondrial activity in brown adipocytes.

BML-260 stimulates the expression of UCP1 in adipocytes in a JSP-1 independent manner.

BML-260 upregulates thermogenic and muscle program genes.

BML-260 induces UCP1 expression in white adipocytes and enhances thermogenesis, activates UCP1 and increases thermogenesis in vivo.

JSP-1 is a dual-specific phosphatase encoded by DUSP22 (dual specificity phosphatase 22), which is also known as JKAP (JNK pathway-associated phosphatase), JSP-1 is a JNK activator, and a proposed target for the treatment of inflammatory and proliferative disorders associated with dysfunctional JNK signaling.

### References

Feng Z, et al. *Theranostics*. 2019 May 26;9(12):3501-3514.

Albayrak E, et al. *J Cell Biochem*. 2022 Dec;123(12):2009-2029.

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

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