

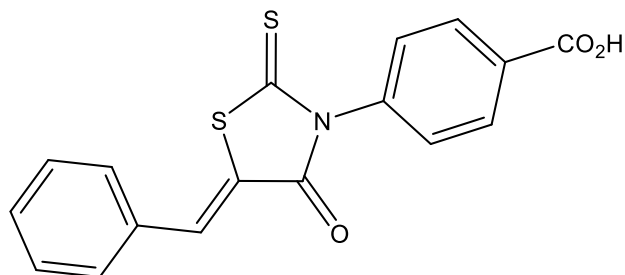
Catalog # 10-5153

BML-260

CAS# 101439-76-3

(Z)-4-(5-Benzylidene-4-oxo-2-thioxothiazolidin-3-yl)benzoic acid

Lot # E102555



A potent inhibitor of the dual specificity phosphatase JSP-1 (IC₅₀= 18 μM).¹ It promotes the growth of cord blood and mobilizes peripheral blood hematopoietic stem and progenitor cells.² It increases UCP1 expression in both brown and white adipocytes increasing mitochondrial activity and heat generation, an effect that is JSP-1 independent.³

- 1) Cutshall *et al.* (2005), *Rhodanine derivatives as inhibitors of JSP-1*; *Bioorg. Med. Chem. Lett.*, **15** 3374
- 2) Albayrak *et al.* (2022), *BML-260 promotes the growth of cord blood and mobilized peripheral blood hematopoietic stem and progenitor cells with improved reconstitution ability*; *J. Cell. Biochem.*, **123** 2009
- 3) Feng *et al.* (2019), *Identification of a rhodamine derivative BML-260 as a potent stimulator of UCP1 expression*; *Theranostics*, **9** 3501

PHYSICAL DATA

Molecular Weight:	341.40
Molecular Formula:	C ₁₇ H ₁₁ NO ₃ S ₂
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (45 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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