

WB518

## Chemical Properties

CAS No. :

Formula: C<sub>20</sub>H<sub>16</sub>BrN<sub>5</sub>O<sub>5</sub>S

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	WB518 is a potent STAT3 inhibitor. It effectively suppresses STAT3 activity and the expression of keratin 17. By inhibiting STAT3 phosphorylation and keratin 17, WB518 can significantly alleviate imiquimod and TPA-induced psoriasis in animal models.
Targets(IC50)	STAT
In vitro	WB518 (5-25 $\mu$ M) significantly reduces the mRNA and protein levels of keratin 17 (K17) in HaCaT cells by inhibiting the phosphorylation of STAT3 Tyr705 (Y705).
In vivo	Topical application of WB518 (at doses of 17.5 $\mu$ g and 35 $\mu$ g per site, daily for 5 days) alleviates TPA-induced psoriasis-like skin inflammation and significantly improves the phenotypic characteristics in a mouse model of psoriasis.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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