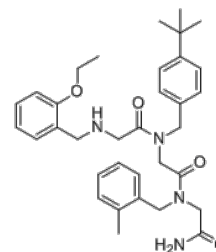


**Product Name** : TXS-8  
**Cat. No.** : PC-47062  
**CAS No.** : 2411401-41-5  
**Molecular Formula** : C<sub>34</sub>H<sub>44</sub>N<sub>4</sub>O<sub>4</sub>  
**Molecular Weight** : 572.750  
**Target** : Proteasome  
**Solubility** : 10 mM in DMSO



## Biological Activity

TXS-8 is a specific, small molecule binder of **Rpn-6** with KD of 14  $\mu$ M, Rpn-6 is a subunit of the 19S regulatory particle (RP) of 26S proteasome.

TXS-8 showed binding affinity towards Rpn-6 in biochemical and cell-based assays.

TXS-8 was also preferentially cytotoxic to cancer cell lines that require significant 26S proteasome activity for survival (MM.1R and Ramos B-cells, IC<sub>50</sub>=14  $\mu$ M).

TXS-8 exhibited no appreciable binding against other 19S RP subunit, including Rpn-13. a useful tool to further elucidate the role of Rpn-6.

Rpn-6 is a proteasome-associated protein that makes critical contacts with the 19S regulatory particle (19S RP) and the 20S core particle (20S CP) of the proteasome.

## References

Tian W, et al. *ACS Chem Biol.* 2020 Feb 21;15(2):554-561.

Tian W, et al. *Chembiochem.* 2021 Jun 2;22(11):1961-1965.

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

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