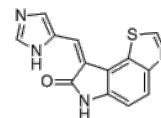


**Product Name** : PKR inhibitor C16  
**Cat. No.** : PC-49628  
**CAS No.** : 608512-97-6  
**Molecular Formula** : C<sub>13</sub>H<sub>8</sub>N<sub>4</sub>OS  
**Molecular Weight** : 268.30  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

PKR inhibitor C16 (GW506033X) is a specific small molecule inhibitor of double-stranded RNA-dependent protein kinase (**PKR**).

PKR inhibitor C16 (GW506033X) is able to inhibit the autophosphorylation of PKR and to rescue the translation blockade induced by PKR.

PKR inhibitor C16 (GW506033X) prevent not only PKR phosphorylation but also the activation of caspase 3 induced by A $\beta$  in SH-SY5Y cells, demonstrates protective effect on the neuronal cell death induced by endoplasmic reticulum-stress in SH-SY5Y cells.

PKR inhibitor C16 (GW506033X) specifically inhibits the apoptotic PKR/eIF2 $\alpha$  signaling pathway without stimulating the proliferative mTOR/p70S6K signaling mechanism.

## References

Ingrand S, et al. *FEBS Lett.* 2007 Sep 18;581(23):4473-8.

Couturier J, et al. *J Neuroinflammation.* 2011 Jun 23;8:72.

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

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